Jay Dry Cleaners

BRONX, NEW YORK

Interim Remedial Measure Construction Completion Report

NYSDEC Site Number: C203119

Prepared for:

Mr. Suhak Lee

3211 Riverdale Avenue

Bronx, NY 10463

Prepared by:

Jason B Stewart Engineering, P.C.

228 Park Avenue South PMB 34864

New York, NY 10003

516-441-5800

APRIL 2026

CERTIFICATIONS

I, Jason Stewart, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Interim Remedial Measure Workplan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Interim Remedial Measure Workplan.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Jason Stewart, of Jason B Stewart Engineering, P.C. , am certifying as Owner's Designated Site Representative

105632	April 3, 2026	Jason Stewart
NYS Professional Engineer #	Date	Signature

TABLE OF CONTENTS

LIST OF ACRONYMS

Acronym	Definition
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CAMP	Community Air Monitoring Plan
CCR	Construction Completion Report
CIS-1,2-DCE	Cis-1,2-Dichloroethene
EC	Engineering Control
GAC	Granular Activated Carbon
HASP	Health and Safety Plan
IC	Institutional Control
IRM	Interim Remedial Measure
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	Tetrachloroethene
RAO	Remedial Action Objective
SC	Site Characterization
SCOS	Soil Cleanup Objectives
SMP	Site Management Plan
SSDS	Sub-Slab Depressurization System
SVE	Soil Vapor Extraction
TCE	Trichloroethene
ug/l	Microgram per liter
ug/m^3	Microgram per cubic meter
VOCS	Volatile Organic Compounds
W.C.	Water column

CONSTRUCTION COMPLETION REPORT

1.0 BACKGROUND

Mr. Suhak Lee entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) in July, 2019, to investigate and remediate a 0.26-acre property located in Wakefield section of Bronx, New York

1.1 Site Description

The Site is located at 840 East 233rd Street in the Wakefield section of Bronx, New York and identified as Block 4857, Lot 49 on the New York City Tax Map. Figure 1 contains a Site location map.

The Site is approximately 11,350 square feet (0.26 acres) in area and is improved with a one-story commercial building approximately 4,700 square feet (0.11 acres) in area with a partial basement and an asphalt-paved parking lot. The building is currently occupied for commercial use by Great Day Cleaners, which utilizes Exxon DF-2000, a non-chlorinated biodegradable dry-cleaning fluid.

The general vicinity of the Site is composed predominantly of residential and commercial uses. The site is bounded by a twelve-story residential apartment building to the north, two- and three-story residential multi-family buildings to the south, a one-story commercial building to the east, and a one-story gasoline filling station to the west.

The IRM activities were performed at the adjacent property to the east at 864-868 E 233rd St. The adjacent property to the east is identified as Block 4857, Lot 59 on the New York City Tax Map and contains 5,530 square foot building with storage in the basement and offices and a church on the first floor.

1.2 Previous Investigations

Previous environmental assessments performed between the years 2016 and 2021 at the subject property included soil vapor and indoor air analyses which identified a soil vapor encroachment condition and groundwater sampling which identified an area of chlorinated solvent impact along the eastern property boundary. Based on these findings, NYSDEC required that the Participant perform a soil vapor intrusion study at the neighboring building to the east (866 233rd Street). On January 22, 2021, ACT mobilized to 866 233rd Street to perform a soil vapor intrusion study consisting of one indoor ambient air sample and two sub-slab soil vapor samples. Analytical results for the ambient indoor air sample identified a concentration of trichlorethylene (TCE) at 7.2 ug/m3 and soil vapor concentrations of TCE of 26 ug/m3 and 28,000 ug/m3. Additionally, several chlorinated solvent compounds including tetrachloroethene (PCE), vinyl chloride, and cis-1,2-dichloroethlene (DCE) were detected at elevated concentrations in soil vapor beneath this neighboring building. The results of the soil vapor intrusion study were evaluated using New York State Department of Health (NYSDOH) guidance and it was determined that mitigation measures were warranted to address the vapor intrusion at 866 233rd Street. Previous site assessments and investigations have also identified that the depth to the groundwater table beneath the basement of the building is approximately two to three feet.

2.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Interim Remedial Measure Workplan(IRMWP) for the Jay Dry Cleaners site (February, 2022) and IRMWP Addendum dated January 25, 2023.

On December 15, 2021, PWGC mobilized to the property along with ACT and NYSDEC to assess options for vapor intrusion mitigation measures at 866 233rd Street. During the site inspection, multiple locations were observed on the basement floor that were identified as potential pathways for soil vapor intrusion including three sump pits which were covered with sheet metal, trenches which appeared to be approximately two to three inches wide, and multiple gouged areas with exposed subsurface that ranged from one-inch to 6-inches in diameter. These trenches and sumps were installed by the current property owner to manage flooding issues. These identified potential pathways were sealed and covered under a March 2022 IRM Work Plan in August and September of 2022 when the trenches were channelized with fiberglass bottoms and covers were placed over the sump pits.

Based on the observations documented the site inspection and the shallow depth to the water table beneath the basement floor that prevents the installation of a subgrade mitigation system, such as a sub slab depressurization system (SSDS), PWGC proposed the following measures:

- Sealing of exposed soil within trenches and gouges with cement/grout.
- Installing permanent manhole covers above the sump pits.

These measures were proposed to act as a barrier against impacted vapors from encroaching into the indoor air of the basement at this building. Between August 22nd, 2022 and September 8th, 2022, the existing exposed dirt trenches were expanded and NDS Pro Series Channel Drains were installed in all slab penetrations throughout the basements of 864 and 866 East 233rd Street. Existing exposed brick sump pits were replaced with NDS 18” HDPE sealed catch basins to store water that is then discharged

through existing pumps and connections to the NYC sewer. At locations where trenches and gouges were observed, concrete and/or grout was applied to seal off the exposed subsurface where vapor pathways were able to infiltrate. At a minimum, the applied concrete or grout matched the thickness of approximately 6 inches of the existing slab at each location.

During the performance of the IRM, drainage of overland onsite stormwater was also determined to be required in addition to the sealing of the existing trenches. Therefore, a new stormwater system consisting of composite drains, subsurface piping, and sealed sumps was installed and provides a sealed cover system that minimizes exposure to contaminated soil and soil vapor beneath the site, while also providing a pathway for overland stormwater to exit the property.

The locations of the sealed drainage system are shown in Figure 1. A photo log is attached as Appendix B. Community air monitoring plan data sheets and field notes are attached in appendix D.

All deviations from the IRMWP are noted section 2.8 below.

2.1 GOVERNING DOCUMENTS

2.1.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under the IRMWP were in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

A site-specific Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.

2.1.2 Quality Assurance Project Plan (QAPP)

The QAPP was included as Appendix D of the Remedial Investigation Work Plan approved by the NYSDEC. The QAPP describes the specific policies, objectives, organization, functional activities, and quality assurance/quality control activities designed to achieve the project data quality objectives. During IRM performance and documentation sampling, laboratory analyses of groundwater, soil vapor, and indoor air

samples were conducted by Phoenix Environmental Laboratories, an NYSDOH, ELAP-certified laboratory. Laboratory analyses were conducted in accordance with USEPA methods and NYSDEC Analytical Services Protocol (ASP) B deliverable format. All data was provided in the Department's Electronic Data Deliverable (EDD) EQuIS format.

QA/QC procedures required by the NYSDEC ASP and USEPA methods were followed, including initial and continuing instrument calibrations and analysis of other samples (blanks, laboratory control samples, and matrix spikes/matrix spike duplicates). The laboratory provided sample bottles were pre-cleaned and preserved in accordance with the USEPA methods.

Data Usability Summary Reports (DUSRs) were prepared in accordance with DER-10 by a third-party validator, Jeri Rossi, CEAC. The DUSRs are included in Appendix G.

2.1.3 Community Air Monitoring Plan (CAMP)

Community air monitoring was performed during all invasive remedial activities, including installation drains. Monitoring consisted of trained personnel utilizing a hand-held Photoionization Detector (PID) and Personal Aerosol Dust Monitor(PDR) to monitor for the presence of organic vapors and Particulate matter.

All invasive remedial activities where the composite cover slab inside the building was disturbed where the basement was only occupied by OSHA-certified personnel.

Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix D.

2.2 REMEDIAL PROGRAM ELEMENTS

2.2.1 Contractors and Consultants

- Advanced Cleanup Technologies, Inc. installed the drainage system and was responsible for remedial performance/documentation sampling

- Action Remediation, Inc. was responsible for coordinating and transporting the soil waste generated
- PWGC was responsible for directing and supervising all work until 2023, when Jason B Stewart, PE of Jason B Stewart, Engineering P.C. became the certifying Engineer of Record.

2.2.2 Site Preparation

On December 15, 2021, PWGC mobilized to the property along with ACT and NYSDEC to assess options for mitigation measures at 866 East 233rd Street. During the site inspection, multiple locations were observed on the basement floor that were identified as potential pathways for soil vapor intrusion including three sump pits which were covered with sheet metal, trenches which appeared to be approximately two to three inches wide, and multiple gouged areas with exposed subsurface that ranged from one-inch to 6-inches in diameter.

Documentation of agency approvals required by the IRMWP is included in Appendix A.

2.2.3 General Site Controls

- The basement level of the 866 East 233rd Steet is secured by locking doors accessible only by tenants and owner.
- All waste derived from remedial activities were containerized in 55-gallon DOT-approved drums, stored onsite and transported offsite for disposal as manifested waste. Copies of the fully executed waste manifests are contained in Appendix C.

2.2.4 Nuisance controls

- Dust generated during interior construction was mitigated by ventilation fans with HEPA filters. All work was performed in the basement, which was only occupied by OSHA-certified personnel.
- All work vehicles were parked in the drycleaner parking lot or along side streets. No vehicle routing issues, or other complaints were received.

2.2.5 CAMP results

The Community Air Monitoring Plan provided for the collection and analysis of air samples during remedial construction activities to ensure proper protections were employed to protect workers and the neighboring community. Monitoring was performed from August 22nd, 2022, to September 8th, 2022, in compliance with the Community Air Monitoring Plan in the approved IRMWP. Monitoring included one station in the basement of 866 East 233rd Street, which consisted of a photoionization detector (PID) and PDR dust monitor.

Time Weight Average(TWA) Levels above 100 µg/m3 of particulates were detected on days of sump pit installation on September 7 and 8, 2022.

On September 8th, 2022, a dust reading spike of 179 µg/m3 was noted around 2 pm following the installation of a sealed sump pit. Work ceased for the day after the spike to suppress particulate matter concentrations.

Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix D.

2.3 CONTAMINATED MATERIALS REMOVAL

On March 1, 2023 and June 11, 2024, concrete and soil derived from the installation of the drainage system was containerized in four (4) 55-gallon DOT-approved drums, stored onsite and transported offsite for disposal by Action Remediation, Inc. as non-hazardous manifested waste. Waste manifests are enclosed in Appendix C.

A figure of the location of areas where excavations were performed is shown in Figure 2.

2.4 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

On January 22nd, 2021, two sub-slab soil samples (SS-5 and SS-6) and one indoor air sample (IA-3) were collected from the basement of 866 East 233rd Street

adjacent to the eastern boundary of the Site. Samples were collected over an 8-hr period.

On July 11, 2022, A Dri-Eaz HEPA 700 Air Scrubber with an activated carbon filter was installed in the basement of 864 and 866 East 233rd Street on July 11, 2022.. The Dri-Eaz HEPA 700 Air Scrubber has a variable speed fan that can produce up to 700cfm of flow with up to 6 air exchanges per hour in 7000 cu. ft. spaces. Specifications for the air scrubber are included in Appendix F. Following air testing on August 2, 2022, which showed minimal improvement and some increases of CVOC concentrations in indoor air with the air scrubber, the air scrubber was turned off on July 25, 2023 and maintenance was discontinued. Additional indoor air mitigation measures are being proposed as part of the BCP Remedial Action Workplan and will be submitted to NYSDEC and NYSDOH for review.

On August 2, 2022, two additional indoor air samples (IA-4 and IA-7) were collected from the basement of the adjacent building to the east approximately 1 month after the installation of an air scrubber. Indoor air samples IA-3, IA-4, and IA-7 were resampled on August 10, 2023 more than a month after the implementation of the interim remedial measure of sealing the basement floor. Samples were collected over an 24-hr period.

In 2021, PCE was detected in the indoor air sample IA-3 at 19 mg/m3. PCE was also detected in sub-slab soil vapor samples SS-5 and SS-6 at 73,000 mg/m3 and 400 mg/m3, respectively. According to Matrix B of the NYSDOH Guidance, mitigation is recommended for the concentrations of PCE detected in sub-slab soil vapor and indoor air at the Site. In 2022, after the installation of an air scrubber, PCE was detected in the indoor air samples IA-4, and IA-7 at concentrations of 22.2 mg/m3, and 19 mg/m3, respectively. These concentrations were all below the NYSDOH Air Guideline Value for PCE of 30 mg/m3. Following floor sealing mitigation measures, the concentrations of PCE in the indoor air samples IA-3, IA-4, and IA-7 had reduced to 17.7 mg/m3, 17.7 mg/m3, and 13.8 mg/m3, respectively.

In 2021, TCE was detected in the indoor air sample IA-3 at 7.2 mg/m3. TCE was also detected in sub-slab soil vapor samples SS-5 and SS-6 at 28,000 mg/m3 and 26

mg/m3, respectively. According to Matrix A of the NYSDOH Guidance, mitigation is recommended for the concentrations of TCE detected in sub-slab soil vapor and indoor air at the Site. In 2022, after the installation of an air scrubber, TCE was detected in the indoor air samples A-4, and IA-7 at concentrations of 12.4 mg/m3, and 10.2 mg/m3, respectively. These concentrations were all above the NYSDOH Air Guideline Value for TCE of 2 mg/m3. Following floor sealing mitigation measures, the concentrations of TCE in the indoor air samples IA-3, IA-4, and IA-7 had reduced to 7.63 mg/m3, 7.14 mg/m3, and 5.48 mg/m3, respectively.

In 2021, CIS12-DCE was detected in the indoor air sample IA-3 at 35 mg/m3. CIS12-DCE was also detected in sub-slab soil vapor samples SS-5 and SS-6 at 79,000 mg/m3 and 65 mg/m3, respectively. According to Matrix A of the NYSDOH Guidance, mitigation is recommended for the concentrations of CIS12-DCE detected in sub-slab soil vapor and indoor air at the Site. In 2022, after the installation of an air scrubber, CIS12-DCE was detected in the indoor air samples IA-4, and IA-7 at concentrations of 68.2 mg/m3, and 63.4 mg/m3, respectively. Following floor sealing mitigation measures, the concentrations of CIS12-DCE in the indoor air samples IA-3, IA-4, and IA-7 had reduced to 31.4 mg/m3, 30.8 mg/m3, and 21.3 mg/m3, respectively.

In 2021, Vinyl Chloride was detected in the indoor air sample IA-3 at 1 mg/m3. Vinyl Chloride was also detected in sub-slab soil vapor samples SS-5 and SS-6 at 7,900 mg/m3 and 1.9 mg/m3, respectively. According to Matrix C of the NYSDOH Guidance, mitigation is recommended for the concentrations of Vinyl Chloride detected in sub-slab soil vapor and indoor air at the Site. In 2022, after the installation of an air scrubber, Vinyl Chloride was detected in the indoor air samples IA-4, and IA-7 at concentrations of 4.65 mg/m3, and 4.85 mg/m3, respectively. Following floor sealing mitigation measures, the concentrations of Vinyl Chloride in the indoor air samples 0.23 mg/m3, 0.25 mg/m3, and below detection limits, respectively.

In 2021, Carbon Tetrachloride was detected at low levels in the indoor air sample IA-3 at 0.52 mg/m3. Carbon Tetrachloride was also detected in sub-slab soil vapor sample SS-6 at 0.32 mg/m3. According to Matrix A of the NYSDOH Guidance, no further action is recommended for the concentrations of Carbon Tetrachloride detected in

sub-slab soil vapor and indoor air at the Site. In 2022, after the installation of an air scrubber, Carbon Tetrachloride was detected in the indoor air samples IA-4, and IA-7 at concentrations of 0.53 mg/m3, and 0.51 mg/m3, respectively. Following floor sealing mitigation measures, the concentrations of Carbon Tetrachloride in the indoor air samples IA-3, IA-4, and IA-7 had reduced to 0.49 mg/m3, 0.5 mg/m3, and 0.47 mg/m3, respectively.

In 2021, 1,1-Dicholoroethene (11-DCE) was not detected at in the indoor air samples IA-3. 11-DCE was also detected in sub-slab soil vapor sample SS-5 at 670 mg/m3. According to Matrix A of the NYSDOH Guidance, mitigation is recommended for the concentrations of 11-DCE detected in sub-slab soil vapor at the Site. In 2022, after the installation of an air scrubber, 11-DCE was detected in the indoor air sample IA-4 at a concentration of 0.22 mg/m3 but was not detected in IA-7. Following floor sealing mitigation measures, 1,1-Dicholoroethane was not detected in any of the indoor air samples.

A table and figure summarizing all air samples is included in Table 1 and Figure 3, respectively. Laboratory Reports are attached in Appendix E.

2.6 DRAINAGE SYSTEM

Exposure to remaining contamination in soil/fill at the site is prevented by a sealed drainage cover system placed over 864 and 866 East 233rd Street. The NDS Pro Series Channel Drains are made of Polyolefin plastic and provide a sealed pathway for overland water entering to the basement to be routed to catch basins installed in the basement floor. Existing exposed brick sump pits were replaced with NDS 18” HDPE sealed catch basins to store water that is then discharged through existing pumps and connections to the NYC sewer. The newly installed drains and catch basins were sealed to the existing concrete slab using non-shrink concrete grout. The resultant system is a completed capped drainage system that minimizes exposure to contaminated soil and soil vapor beneath the site.

The digital photo log is included in electronic format in Appendix B. Specifications for the sealed drains and sumps are included in Appendix F.

2.8 DEVIATIONS FROM THE INTERIM REMEDIAL WORK PLAN

During the performance of the IRM, drainage of overland onsite stormwater was also determined to be required in addition to the sealing of the existing trenches. Therefore, a new stormwater system consisting of composite drains, subsurface piping, and sealed sumps was installed and provides a sealed cover system that minimizes exposure to contaminated soil and soil vapor beneath the site, while also providing a pathway for overland stormwater to exit the property.

A Dri-Eaz HEPA 700 Air Scrubber with an activated carbon filter was installed in the basement of 864 and 866 East 233rd Street on July 11, 2022.. The Dri-Eaz HEPA 700 Air Scrubber has a variable speed fan that can produce up to 700cfm of flow with up to 6 air exchanges per hour in 7000 cu. ft. spaces. Specifications for the air scrubber are included in Appendix F. Following air testing on August 2, 2022, which showed minimal improvement and some increases of CVOC concentrations in indoor air with the air scrubber, the air scrubber was turned off on July 25, 2023 and maintenance was discontinued. Additional indoor air mitigation measures are being proposed as part of the BCP Remedial Action Workplan and will be submitted to NYSDEC and NYSDOH for review.

Following approval of the IRM addendum letter, dewatering wells DW-1 and DW-2 were installed in the basement of 866 East 233rd Street. The dewatering wells were sampled on March 9, 2023. DW-2 contained cis-1,2-Dichloroethylene at 22,100 ug/L and vinyl chloride at 4,640 ug/L. The results of this were included in the RIR and RAWP. To avoid continually dewatering, treating and drawing in the contaminated water, it was concluded the dewatering be better handled during the remedial action when treatment with ISCO injections is proposed.

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

A. NYSDEC Approvals of Substantive Technical Requirements

B. Project Photo Log

C. Waste Manifests

D. CAMP Field Data Sheets and Air Monitoring Data

E. Raw Analytical Laboratory Data

F. Engineering Control Specifications

G. Data Usability Summary Reports

Tables

Table 1

Volatile Organic Compounds in Soil Vapor (ug/m3)

EPA Method TO15

BCP Site No. C203119

Sample ID		SV-1		SV-2		SV-3		SS-1		SS-2		SS-3		SS-4		SS-5		SS-6		SS-12		SS-15		SS-18	
York & Phoenix ID		21D0660-01		21D0660-02		21D0660-03		20H0017-01		20H0017-02		20H0017-04		20H0017-05		21A0950-01		21A0950-02		CM85136		22F1004-01		CP07985	
Sampling Date		4/13/21		4/13/21		4/13/21		7/31/20		7/31/20		7/31/20		7/31/20		1/22/21		1/22/21		11/9/22		6/16/22		9/21/23	
Client Matrix		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	RL	Result	Q	Result	RL
Volatile Organics, EPA TO15 Full List		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Dilution Factor		1.546		1.753		1.702		45.37		86.88		84.5		72.2		662.14		16.87				1.932			
1,1,1,2-Tetrachloroethane	630-20-6	1.100	U	1.200	U	1.200	U	31	U	15	U	12	U	12	U	16	U	1.2	U	< 1.00	1.00	1.300	U	< 1.00	1.00
1,1,1-Trichloroethane	71-55-6	0.840	U	0.960	U	0.930	U	25	U	12	U	9.2	U	9.8	U	13	U	0.92	U	< 1.00	1.00	1.100	U	< 1.00	1.00
1,1,2,2-Tetrachloroethane	79-34-5	1.100	U	1.200	U	1.200	U	31	U	15	U	12	U	12	U	16	U	1.2	U	< 1.00	1.00	1.300	U	< 1.00	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	1.200	U	1.300	U	1.300	U	35	U	17	U	13	U	14	U	18	U	1.3	U	< 1.00	1.00	1.500	U	< 1.00	1.00
1,1,2-Trichloroethane	79-00-5	0.840	U	0.960	U	0.930	U	25	U	12	U	9.2	U	9.8	U	13	U	0.92	U	< 1.00	1.00	1.100	U	< 1.00	1.00
1,1-Dichloroethane	75-34-3	0.630	U	0.710	U	0.690	U	18	U	8.8	U	6.8	U	7.3	U	9.3	U	0.68	U	< 1.00	1.00	0.780	U	< 1.00	1.00
1,1-Dichloroethylene	75-35-4	0.150	U	0.170	U	0.170	U	4.5	U	2.2	U	1.7	U	1.8	U	**670**	D	0.17	U	< 0.20	0.20	0.190	U	< 0.20	0.20
1,2,4-Trichlorobenzene	120-82-1	1.100	U	1.300	U	1.300	U	34	U	16	U	13	U	13	U	17	U	1.3	U	< 1.00	1.00	1.400	U	< 1.00	1.00
1,2,4-Trimethylbenzene	95-63-6	3.800	D	5.300	D	3	D	22	U	11	U	**8.3**	D	**8.9**	J	11	U	**1.4**	D	**4.56**	1.00	45	D	< 1.00	1.00
1,2-Dibromoethane	106-93-4	1.200	U	1.300	U	1.300	U	35	U	17	U	13	U	14	U	18	U	1.3	U	< 1.00	1.00	1.500	U	< 1.00	1.00
1,2-Dichlorobenzene	95-50-1	0.930	U	1.100	U	1	U	27	U	13	U	10	U	11	U	14	U	1	U	< 1.00	1.00	1.200	U	< 1.00	1.00
1,2-Dichloroethane	107-06-2	0.630	U	0.710	U	0.690	U	18	U	8.8	U	6.8	U	7.3	U	9.3	U	0.68	U	< 1.00	1.00	0.780	U	< 1.00	1.00
1,2-Dichloropropane	78-87-5	0.710	U	0.810	U	0.790	U	21	U	10	U	7.8	U	8.3	U	11	U	0.78	U	< 1.00	1.00	0.890	U	< 1.00	1.00
1,2-Dichlorotetrafluoroethane	76-14-2	1.100	U	1.200	U	1.200	U	32	U	15	U	12	U	13	U	16	U	1.2	U	< 1.00	1.00	1.400	U	< 1.00	1.00
1,3,5-Trimethylbenzene	108-67-8	1.300	D	2	D	0.840	J	**22**	J	11	U	8.3	U	8.9	U	11	U	0.83	U	< 1.00	1.00	57	D	< 1.00	1.00
1,3-Butadiene	106-99-0	1	U	1.400	D	1.100	U	30	U	14	U	11	U	12	U	15	U	1.1	U	< 1.00	1.00	1.300	U	< 1.00	1.00
1,3-Dichlorobenzene	541-73-1	0.930	U	1.100	U	1	U	27	U	13	U	10	U	11	U	14	U	1	U	< 1.00	1.00	1.200	U	< 1.00	1.00
1,3-Dichloropropane	142-28-9	0.710	U	0.810	U	0.790	U	21	U	10	U	7.8	U	8.3	U	11	U	0.78	U	NT		0.890	U	NT	
1,4-Dichlorobenzene	106-46-7	0.930	U	1.100	U	1	U	27	U	13	U	10	U	11	U	14	U	1	U	< 1.00	1.00	1.200	U	**1.39**	1.00
1,4-Dioxane	123-91-1	1.100	U	1.300	U	1.200	U	33	U	16	U	12	U	13	U	17	U	1.2	U	< 1.00	1.00	1.400	U	< 1.00	1.00
2-Butanone	78-93-3	1.300	D	20	D	1.400	D	13	U	6.4	U	**25**	D	**11**	D	**6.8**	J	**16**	D	**6.28**	1.00	3.600	D	< 1.00	1.00
2-Hexanone	591-78-6	1.300	J	1.400	J	1.400	U	37	U	18	U	14	U	15	U	19	U	**3.2**	D	< 1.00	1.00	1.600	U	< 1.00	1.00
3-Chloropropene	107-05-1	2.400	U	2.700	U	2.700	U	71	U	34	U	26	U	28	U	36	U	2.6	U	NT		3	U	NT	
4-Methyl-2-pentanone	108-10-1	0.630	U	3	D	0.700	U	19	U	8.9	U	6.9	U	7.4	U	9.5	U	**1.7**	D	**1.99**	1.00	0.790	U	< 1.00	1.00
Acetone	67-64-1	11	D	65	D	9.900	D	**620**	D	**200**	D	**210**	D	**93**	D	**45**	D	**190**	D	**114**	1.00	23	D	**8.59**	1.00
Acrylonitrile	107-13-1	0.340	U	0.380	U	0.370	U	9.8	U	4.7	U	3.7	U	3.9	U	5	U	0.37	U	< 1.00	1.00	0.420	U	< 1.00	1.00
Benzene	71-43-2	1.300	D	26	D	0.540	U	**35**	D	6.9	U	**6.5**	D	**12**	D	**26**	D	**2.7**	D	< 1.00	1.00	2.400	D	< 1.00	1.00
Benzyl chloride	100-44-7	0.800	U	0.910	U	0.880	U	23	U	11	U	8.7	U	9.3	U	12	U	0.87	U	< 1.00	1.00	1	U	< 1.00	1.00
Bromodichloromethane	75-27-4	1	U	1.200	U	4.100	D	30	U	15	U	11	U	12	U	15	U	1.1	U	< 1.00	1.00	1.300	U	< 1.00	1.00
Bromoform	75-25-2	1.600	U	1.800	U	1.800	U	47	U	22	U	17	U	19	U	24	U	1.7	U	< 1.00	1.00	2	U	< 1.00	1.00
Bromomethane	74-83-9	0.600	U	0.680	U	0.660	U	18	U	8.4	U	6.6	U	7	U	9	U	0.66	U	< 1.00	1.00	0.750	U	< 1.00	1.00
Carbon disulfide	75-15-0	2.100	D	67	D	1.300	D	**69**	D	**22**	D	**8.9**	D	**13**	D	**13**	D	**8.3**	D	**6.47**	1.00	0.600	U	< 1.00	1.00
Carbon tetrachloride	56-23-5	0.490	D	0.280	U	0.640	D	7.1	U	3.4	U	2.7	U	2.8	U	3.6	U	**0.32**	D	**0.62**	0.20	0.360	D	**0.25**	0.20
Chlorobenzene	108-90-7	0.710	U	0.810	U	0.780	U	21	U	10	U	7.8	U	8.3	U	11	U	0.78	U	< 1.00	1.00	0.890	U	< 1.00	1.00
Chloroethane	75-00-3	0.410	U	0.460	U	0.450	U	12	U	5.7	U	4.5	U	4.8	U	**70**	D	0.45	U	< 1.00	1.00	0.510	U	< 1.00	1.00
Chloroform	67-66-3	8.200	D	4	D	67	D	22	U	**23**	D	8.3	U	8.8	U	**11**	D	**2.4**	D	**26.4**	1.00	9.200	D	< 1.00	1.00
Chloromethane	74-87-3	0.320	U	0.360	U	0.350	U	9.4	U	4.5	U	3.5	U	3.7	U	**4.8**	J	**1.4**	D	< 1.00	1.00	0.400	U	< 1.00	1.00
cis-1,2-Dichloroethylene	156-59-2	0.150	U	0.420	D	0.170	U	4.5	U	**1,600**	D	1.7	U	**5.7**	D	**79000**	D	**65**	D	< 0.20	0.20	0.190	U	**0.4**	0.20
cis-1,3-Dichloropropylene	10061-01-5	0.700	U	0.800	U	0.770	U	21	U	9.9	U	7.7	U	8.2	U	10	U	0.77	U	< 1.00	1.00	0.880	U	< 1.00	1.00
Cyclohexane	110-82-7	0.530	U	3.100	D	0.590	U	**7,400**	D	**51**	D	5.8	U	6.2	U	**82**	D	**1.2**	D	< 1.00	1.00	2.700	D	< 1.00	1.00
Dibromochloromethane	124-48-1	1.300	U	1.500	U	1.400	U	39	U	19	U	14	U	15	U	20	U	1.4	U	< 1.00	1.00	1.600	U	< 1.00	1.00
Dichlorodifluoromethane	75-71-8	2.300	D	2.400	D	2.300	D	22	U	11	U	8.4	U	8.9	U	11	U	**2**	D	**2.38**	1.00	3.100	D	**2.16**	1.00
Ethyl acetate	141-78-6	1.100	U	1.300	U	1.200	U	33	U	16	U	12	U	13	U	17	U	1.2	U	< 1.00	1.00	1.400	U	< 1.00	1.00
Ethyl Benzene	100-41-4	10	D	3.300	D	0.810	D	**61**	D	**9.4**	J	7.3	U	**7.8**	J	10	U	**1.3**	D	< 1.00	1.00	17	D	< 1.00	1.00
Hexachlorobutadiene	87-68-3	1.600	U	1.900	U	1.800	U	48	U	23	U	18	U	19	U	25	U	1.8	U	< 1.00	1.00	2.100	U	< 1.00	1.00
Isopropanol	67-63-0	0.760	J	1.400	D	0.840	J	22	U	11	U	8.3	U	8.9	U	11	U	**1.7**	D	**2.63**	1.00	1.400	D	**1.86**	1.00
Methyl Methacrylate	80-62-6	0.630	J	0.720	U	0.700	J	19	U	8.9	U	**6.9**	J	7.4	U	9.5	U	0.69	U	NT		0.790	U	NT	
Methyl tert-butyl ether (MTBE)	1634-04-4	0.560	U	0.630	U	0.610	U	16	U	7.8	U	6.1	U	6.5	U	8.3	U	**0.97**	D	< 1.00	1.00	2	D	< 1.00	1.00
Methylene chloride	75-09-2	1.100	D	1.900	D	1.200	J	**32**	J	15	U	**12**	J	**13**	J	**16**	J	**5.7**	D	< 3.00	3.00	8.700	D	< 3.00	3.00
n-Heptane	142-82-5	0.630	J	11	D	0.700	U	19	U	8.9	U	**44**	D	**21**	D	**87**	D	**61**	D	**3.19**	1.00	7.100	D	< 1.00	1.00
n-Hexane	110-54-3	0.930	D	11	D	0.780	D	**1,300**	D	**42**	D	**30**	D	**15**	D	**54**	D	**21**	D	**3.04**	1.00	4.900	D	< 1.00	1.00
o-Xylene	95-47-6	7	D	5.100	D	1.300	D	20	U	**9.4**	J	**7.3**	J	**7.8**	J	10	U	**1.6**	D	**1.5**	1.00	60	D	< 1.00	1.00
p- & m- Xylenes	179601-23-1	22	D	11	D	3.900	D	39	U	**19**	J	15	U	16	U	20	U	**4.3**	D	**3.68**	1.00	45	D	**1.61**	1.00
p-Ethyltoluene	622-96-8	3	D	5.100	D	2	D	**27**	D	11	U	**8.3**	J	8.9	U	11	U	**1.4**	D	**2.46**	1.00	39	D	< 1.00	1.00
Propylene	115-07-1	2.800	D	36	D	1.800	D	**370**	D	**32**	D	**21**	D	**13**	D	4	U	**4.4**	D	**1.86**	1.00	8.800	D	< 1.00	1.00
Styrene	100-42-5	0.660	J	0.750	U	0.730	U	19	U	9.3	U	7.2	U	7.7	U	9.8	U	**0.72**	J	< 1.00	1.00	0.820	U	< 1.00	1.00
Tetrachloroethylene	127-18-4	95	D	80	D	12	D	**130**	D	**9,700**	D	**15,000**	D	**6,400**	D	**73000**	D	**400**	D	**36.9**	0.25	12	D	**1.16**	0.25
Tetrahydrofuran	109-99-9	1.100	D	1	U	1	U	27	U	13	U	10	U	11	U	14	U	**2.8**	D	< 1.00	1.00	1.100	U	< 1.00	1.00
Toluene	108-88-3	17	D	19	D	1.600	D	**56**	D	**16**	D	**11**	D	**10**	D	**21**	D	**7.8**	D	**2.71**	1.00	11	D	**1.91**	1.00
trans-1,2-Dichloroethylene	156-60-5	0.610	U	0.700	U	0.670	U	**31**	D	**25**	D	6.7	U	7.2	U	**820**	D	0.67	U	< 1.00	1.00	0.770	U	< 1.00	1.00
trans-1,3-Dichloropropylene	10061-02-6	0.700	U	0.800	U	0.770	U	21	U	9.9	U	7.7	U	8.2	U	10	U	0.77	U	< 1.00	1.00	0.880	U	< 1.00	1.00
Trichloroethylene	79-01-6	7.300	D	2.900	D	0.230	U	6.1	U	**1,500**	D	**42**	D	**77**	D	**28000**	D	**26**	D	< 0.20	0.20	0.260	U	**0.95**	0.20
Trichlorofluoromethane (Freon 11)	75-69-4	1.600	D	1.300	D	1.300	D	25	U	12	U	9.5	U	10	U	13	U	**1**	D	**1.33**	1.00	1.700	D	**1.11**	1.00
Vinyl acetate	108-05-4	0.540	U	0.620	U	0.600	U	16	U	7.6	U	6	U	6.4	U	8.1	U	0.59	U	NT		0.680	U	NT	
Vinyl bromide	593-60-2	0.680	U	0.770	U	0.740	U	20	U	9.5	U	7.4	U	7.9	U	10	U	0.74	U	NT		0.850	U	NT	
Vinyl Chloride	75-01-4	0.200	U	0.220	U	0.220	U	**59**	D	2.8	U	2.2	U	2.3	U	**7900**	D	**1.9**	D	< 0.20	0.20	0.250	U	< 0.20	0.20
4-Isopropyltoluene	99-87-6	NT		NT		NT		NT		NT		NT		NT		NT		NT		< 1.00	1.00	NT		< 1.00	1.00
Ethanol	64-17-5	NT		NT		NT		NT		NT		NT		NT		NT		NT		**7.95**	1.00	NT		**59.9**	1.00
Isopropylbenzene	98-82-8	NT		NT		NT		NT		NT		NT		NT		NT		NT		< 1.00	1.00	NT		< 1.00	1.00
n-Butylbenzene	104-51-8	NT		NT		NT		NT		NT		NT		NT		NT		NT		< 1.00	1.00	NT		< 1.00	1.00
sec-Butylbenzene	135-98-8	NT		NT		NT		NT		NT		NT		NT		NT		NT		< 1.00	1.00	NT		< 1.00	1.00

NOTES:

Yellow highlight =NYSDOH Indoor Air Quality Guideline exeedance

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

RL = Reporting Limit

Table 2
Volatile Organic Compounds in Indoor and Outdoor Air (ug/m3)
EPA Method TO15

BCP Site No. C203119

Sample ID			IA-1		IA-2		IA-3		IA-4		IA-7		IA-3		IA-4		IA-7		IA-11		IA-14		IA-17		OA-1		OA-2		OA-3		OA-4	
York & Phoenix ID			20H0017-03		20H0017-06		21A0950-03		CL97021		CL97022		21A0950-03		CL97021		CL97022		CM85137		22F1004-03		CP07983		20H0017-07		CM85138		22F1004-02		CP07984	
Sampling Date			7/31/20		7/31/20		1/22/21		8/2/22		8/2/22		8/10/23		8/10/23		8/10/23		11/9/22		6/17/22		9/21/23		7/31/20		11/9/22		6/17/22		9/21/23	
Client Matrix			Indoor Ambient Air		Indoor Ambient Air		Indoor Ambient Air		Indoor Ambient Air		Indoor Ambient Air		Indoor Ambient Air		Indoor Ambient Air		Indoor Ambient Air		Indoor Ambient Air		Indoor Ambient Air		Indoor Ambient Air		Outdoor Ambient Air		Outdoor Ambient Air		Outdoor Ambient Air		Outdoor Ambient Air	
Compound	**CAS Number**	**NYSDOH Air Guideline Values**	Result	Q	Result	Q	Result	Q	Result	RL	Result	RL	Result	RL	Result	RL	Result	Q	Result	RL	Result	Q	Result	RL	Result	Q	Result	RL	Result	Q	Result	RL
Volatile Organics, EPA TO15 Full List			ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Dilution Factor			0.975		0.947		1.037														41.12								1.166			
1,1,1,2-Tetrachloroethane	630-20-6	~	0.67	U	0.65	U	0.71	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.75	U	< 1.00	1.00	0.64	U	< 1.00	1.00	0.8	U	< 1.00	1.00
1,1,1-Trichloroethane	71-55-6	~	0.53	U	0.52	U	0.57	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.6	U	< 1.00	1.00	0.51	U	< 1.00	1.00	0.64	U	< 1.00	1.00
1,1,2,2-Tetrachloroethane	79-34-5	~	0.67	U	0.65	U	0.71	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.75	U	< 1.00	1.00	0.64	U	< 1.00	1.00	0.8	U	< 1.00	1.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	~	**0.97**	D	0.73	U	0.79	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.84	U	< 1.00	1.00	0.72	U	< 1.00	1.00	0.89	U	< 1.00	1.00
1,1,2-Trichloroethane	79-00-5	~	0.53	U	0.52	U	0.57	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.6	U	< 1.00	1.00	0.51	U	< 1.00	1.00	0.64	U	< 1.00	1.00
1,1-Dichloroethane	75-34-3	~	0.39	U	0.38	U	0.42	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.44	U	< 1.00	1.00	0.38	U	< 1.00	1.00	0.47	U	< 1.00	1.00
1,1-Dichloroethylene	75-35-4	~	0.097	U	0.094	U	0.1	U	**0.22**	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	0.11	U	< 0.20	0.20	0.093	U	< 0.20	0.20	0.12	U	< 0.20	0.20
1,2,4-Trichlorobenzene	120-82-1	~	0.72	U	0.7	U	0.77	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.81	U	< 1.00	1.00	0.69	U	< 1.00	1.00	0.87	U	< 1.00	1.00
1,2,4-Trimethylbenzene	95-63-6	~	**2.3**	D	**1.2**	D	**1**	D	**5.94**	1.00	**6.04**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**7.5**	D	< 1.00	1.00	0.6	D	< 1.00	1.00	0.57	J	< 1.00	1.00
1,2-Dibromoethane	106-93-4	~	0.75	U	0.73	U	0.8	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.84	U	< 1.00	1.00	0.72	U	< 1.00	1.00	0.9	U	< 1.00	1.00
1,2-Dichlorobenzene	95-50-1	~	0.59	U	0.57	U	0.62	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.66	U	< 1.00	1.00	0.56	U	< 1.00	1.00	0.7	U	< 1.00	1.00
1,2-Dichloroethane	107-06-2	~	**0.51**	D	0.38	U	0.42	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.44	U	< 1.00	1.00	0.38	U	< 1.00	1.00	0.47	U	< 1.00	1.00
1,2-Dichloropropane	78-87-5	~	0.45	U	0.44	U	0.48	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.51	U	< 1.00	1.00	0.43	U	< 1.00	1.00	0.54	U	< 1.00	1.00
1,2-Dichlorotetrafluoroethane	76-14-2	~	0.68	U	0.66	U	0.72	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.77	U	< 1.00	1.00	0.65	U	< 1.00	1.00	0.82	U	< 1.00	1.00
1,3,5-Trimethylbenzene	108-67-8	~	**0.77**	D	**0.47**	D	**0.51**	J	**1.98**	1.00	**1.99**	1.00	**2.42**	1.00	**3.04**	1.00	**6.04**	1.00	< 1.00	1.00	**2.3**	D	< 1.00	1.00	0.46	U	< 1.00	1.00	0.57	U	< 1.00	1.00
1,3-Butadiene	106-99-0	~	0.65	U	0.63	U	0.69	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.73	U	< 1.00	1.00	0.62	U	< 1.00	1.00	0.77	U	< 1.00	1.00
1,3-Dichlorobenzene	541-73-1	~	0.59	U	0.57	U	0.62	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.66	U	< 1.00	1.00	0.56	U	< 1.00	1.00	0.7	U	< 1.00	1.00
1,3-Dichloropropane	142-28-9	~	0.45	U	0.44	U	0.48	U	NT		NT		NT		NT		NT		NT		0.51	U			0.43	U	NT		0.54	U	NT	
1,4-Dichlorobenzene	106-46-7	~	**1.2**	D	0.57	U	0.62	U	**1.06**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**1.02**	1.00	**1.2**	D	< 1.00	1.00	0.56	U	< 1.00	1.00	0.7	U	< 1.00	1.00
1,4-Dioxane	123-91-1	~	0.7	U	0.68	U	0.75	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.79	U	< 1.00	1.00	0.67	U	< 1.00	1.00	0.84	U	< 1.00	1.00
2-Butanone	78-93-3	~	**4.7**	D	**1.3**	D	**2.9**	D	**5.01**	1.00	**3.45**	1.00	**7.66**	1.00	**19.4**	1.00	**28.2**	1.00	**1.09**	1.00	**2.3**	D	< 1.00	1.00	1.2	D	< 1.00	1.00	0.69	D	< 1.00	1.00
2-Hexanone	591-78-6	~	**0.8**	J	0.78	U	0.85	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.9	U	< 1.00	1.00	0.77	U	< 1.00	1.00	0.96	U	< 1.00	1.00
3-Chloropropene	107-05-1	~	1.5	U	1.5	U	1.6	U	NT		NT		NT		NT		NT		NT		1.7	U	NT		1.5	U	NT		1.8	U	NT	
4-Methyl-2-pentanone	108-10-1	~	**1.6**	D	0.39	U	0.42	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.45	U	< 1.00	1.00	0.38	U	< 1.00	1.00	0.48	U	< 1.00	1.00
Acetone	67-64-1	~	**98**	D	**10**	D	**12**	D	**73.6**	1.00	**106**	1.00	**44.2**	1.00	**79.5**	1.00	**140**	1.00	**33**	1.00	**3300**	D	**13.4**	1.00	**8.8**	D	**10.2**	1.00	7.2	D	**13.5**	1.00
Acrylonitrile	107-13-1	~	0.21	U	0.21	U	0.23	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.24	U	< 1.00	1.00	0.2	U	< 1.00	1.00	0.25	U	< 1.00	1.00
Benzene	71-43-2	~	**1.3**	D	**0.48**	D	**1.1**	D	**4.09**	1.00	**5.49**	1.00	**2.5**	1.00	**3.35**	1.00	**5.56**	1.00	**1.02**	1.00	**0.63**	D	< 1.00	1.00	0.69	D	< 1.00	1.00	0.56	D	1.05	1.00
Benzyl chloride	100-44-7	~	0.5	U	0.49	U	0.54	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.57	U	< 1.00	1.00	0.48	U	< 1.00	1.00	0.6	U	< 1.00	1.00
Bromodichloromethane	75-27-4	~	0.65	U	0.63	U	0.69	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.73	U	< 1.00	1.00	0.63	U	< 1.00	1.00	0.78	U	< 1.00	1.00
Bromoform	75-25-2	~	1	U	0.98	U	1.1	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	1.1	U	< 1.00	1.00	0.97	U	< 1.00	1.00	1.2	U	< 1.00	1.00
Bromomethane	74-83-9	~	0.38	U	0.37	U	0.4	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.43	U	< 1.00	1.00	0.36	U	< 1.00	1.00	0.45	U	< 1.00	1.00
Carbon disulfide	75-15-0	~	**1.4**	D	0.29	U	0.32	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.34	U	< 1.00	1.00	0.29	U	< 1.00	1.00	0.36	U	< 1.00	1.00
Carbon tetrachloride	56-23-5	~	**0.86**	D	**0.48**	D	**0.52**	D	**0.53**	0.20	**0.51**	0.20	**0.49**	0.20	**0.5**	0.20	**0.47**	0.20	**0.43**	0.20	**0.28**	D	**0.32**	0.20	**0.53**	D	**0.42**	0.20	0.37	D	**0.32**	0.20
Chlorobenzene	108-90-7	~	0.45	U	0.44	U	0.48	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.5	U	< 1.00	1.00	0.43	U	< 1.00	1.00	0.54	U	< 1.00	1.00
Chloroethane	75-00-3	~	0.26	U	0.25	U	0.27	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.29	U	< 1.00	1.00	0.25	U	< 1.00	1.00	0.31	U	< 1.00	1.00
Chloroform	67-66-3	~	**0.57**	D	0.46	U	**0.56**	D	< 1.00	1.00	< 1.00	1.00	**2.95**	1.00	**2.51**	1.00	**2.23**	1.00	< 1.00	1.00	0.53	U	< 1.00	1.00	0.73	D	< 1.00	1.00	0.57	U	< 1.00	1.00
Chloromethane	74-87-3	~	**2.9**	D	**1.4**	D	**1.2**	D	**1.23**	1.00	**1.3**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**1.32**	1.00	**1.2**	D	**1.09**	1.00	**1.4**	D	**1.19**	1.00	1.3	D	**1.09**	1.00
cis-1,2-Dichloroethylene	156-59-2	~	0.097	U	0.094	U	**35**	D	**68.2**	0.20	**63.4**	0.20	**30.8**	0.20	**31.4**	0.20	**21.3**	0.20	< 0.20	0.20	0.11	U	< 0.20	0.20	0.093	U	< 0.20	0.20	0.12	U	< 0.20	0.20
cis-1,3-Dichloropropylene	10061-01-5	~	0.44	U	0.43	U	0.47	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.5	U	< 1.00	1.00	0.42	U	< 1.00	1.00	0.53	U	< 1.00	1.00
Cyclohexane	110-82-7	~	**0.44**	D	0.33	U	**0.57**	D	**6.23**	1.00	**7.43**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**0.41**	D	< 1.00	1.00	0.35	D	< 1.00	1.00	0.4	U	< 1.00	1.00
Dibromochloromethane	124-48-1	~	0.83	U	0.81	U	0.88	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.93	U	< 1.00	1.00	0.8	U	< 1.00	1.00	0.99	U	< 1.00	1.00
Dichlorodifluoromethane	75-71-8	~	**2.4**	D	**1.5**	D	**1.6**	D	**2.71**	1.00	**2.48**	1.00	**2.33**	1.00	**2.24**	1.00	**2.22**	1.00	**2.49**	1.00	**2.5**	D	**2.59**	1.00	**1.7**	D	**2.37**	1.00	2.8	D	**2.49**	1.00
Ethyl acetate	141-78-6	~	**4.1**	D	0.68	U	0.75	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	**132**	1.00	**2.7**	D	< 1.00	1.00	**0.67**	J	**26.6**	1.00	0.97	D	< 1.00	1.00
Ethyl Benzene	100-41-4	~	**2.8**	D	0.41	J	**0.63**	D	**4.03**	1.00	**4.32**	1.00	**2.3**	1.00	**3.61**	1.00	**6.03**	1.00	< 1.00	1.00	**83**	D	< 1.00	1.00	0.41	D	< 1.00	1.00	0.51	J	< 1.00	1.00
Hexachlorobutadiene	87-68-3	~	1	U	1	U	1.1	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	1.2	U	< 1.00	1.00	1	U	< 1.00	1.00	1.2	U	< 1.00	1.00
Isopropanol	67-63-0	~	**510**	DE	**2.8**	D	**17**	D	**11**	1.00	**10.4**	1.00	**4.64**	1.00	**7.22**	1.00	**9.85**	1.00	**10.2**	1.00	**23**	D	**3.07**	1.00	**6.4**	D	**5.63**	1.00	1.8	D	**2.07**	1.00
Methyl Methacrylate	80-62-6	~	**0.6**	D	**0.58**	D	**1.4**	D	NT		NT		NT		NT		NT		NT		**6.2**	D	NT		0.38	U	NT		0.48	J	NT	
Methyl tert-butyl ether (MTBE)	1634-04-4	~	0.35	U	0.34	U	0.37	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.39	U	< 1.00	1.00	0.34	U	< 1.00	1.00	0.42	U	< 1.00	1.00
Methylene chloride	75-09-2	60	**1.7**	D	**2.4**	D	**2.6**	D	< 3.00	3.00	< 3.00	3.00	< 3.00	3.00	< 3.00	3.00	< 3.00	3.00	< 3.00	3.00	0.76	J	< 3.00	3.00	1.3	D	< 3.00	3.00	0.81	J	< 3.00	3.00
n-Heptane	142-82-5	~	**1.1**	D	**0.47**	D	**2.8**	D	**6.72**	1.00	**8.15**	1.00	**1.63**	1.00	**2.84**	1.00	**6.68**	1.00	< 1.00	1.00	**1.3**	D	< 1.00	1.00	0.54	D	< 1.00	1.00	0.48	J	< 1.00	1.00
n-Hexane	110-54-3	~	**5.8**	D	**0.67**	D	**1.8**	D	**18.9**	1.00	**21.9**	1.00	**6.13**	1.00	**10**	1.00	**18.9**	1.00	< 1.00	1.00	**1.1**	D	< 1.00	1.00	0.99	D	< 1.00	1.00	0.45	D	**1.68**	1.00
o-Xylene	95-47-6	~	**3.1**	D	**0.45**	D	**0.86**	D	**5.34**	1.00	**5.77**	1.00	**3.74**	1.00	**5.73**	1.00	**9.5**	1.00	< 1.00	1.00	**75**	D	< 1.00	1.00	0.49	D	< 1.00	1.00	0.51	D	< 1.00	1.00
p- & m- Xylenes	179601-23-1	~	**10**	D	**1.1**	D	**2.2**	D	**13.9**	1.00	**15.4**	1.00	**9.46**	1.00	**14.9**	1.00	**25**	1.00	**1.28**	1.00	**280**	D	**1.92**	1.00	**1.2**	D	**1.16**	1.00	1.4	D	**2.14**	1.00
p-Ethyltoluene	622-96-8	~	**2.1**	D	**1.1**	D	**0.82**	D	**4.78**	1.00	**5.06**	1.00	< 1.00	1.00	**7.86**	1.00	< 1.00	1.00	< 1.00	1.00	**7.5**	D	< 1.00	1.00	0.55	D	< 1.00	1.00	0.57	U	< 1.00	1.00
Propylene	115-07-1	~	0.17	U	0.16	U	0.18	U	< 1.00	1.00	**1.74**	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.19	U	< 1.00	1.00	0.16	U	< 1.00	1.00	0.2	U	< 1.00	1.00
Styrene	100-42-5	~	**3.4**	D	0.4	U	0.44	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.47	U	< 1.00	1.00	0.4	U	< 1.00	1.00	0.5	U	< 1.00	1.00
Tetrachloroethylene	127-18-4	30	**12**	D	**16**	D	**19**	D	**22.2**	0.25	**19**	0.25	**17.7**	0.25	**17.7**	0.25	**13.8**	0.25	**0.73**	0.25	0.74	U	**0.98**	0.25	**0.63**	D	**1.9**	0.25	0.79	J	**0.46**	0.25
Tetrahydrofuran	109-99-9	~	**0.58**	J	0.56	U	**3.4**	D	**18.1**	1.00	**7.57**	1.00	**79.9**	1.00	**127**	1.00	**204**	1.00	< 1.00	1.00	0.65	U	< 1.00	1.00	0.55	U	< 1.00	1.00	0.69	U	< 1.00	1.00
Toluene	108-88-3	~	**16**	D	**1.4**	D	**3.8**	D	**27**	1.00	**26.7**	1.00	**13.8**	1.00	**21.1**	1.00	**33.8**	1.00	**2.22**	1.00	**2.3**	D	**2.35**	1.00	**1.8**	D	**1.96**	1.00	1.7	D	**3.14**	1.00
trans-1,2-Dichloroethylene	156-60-5	~	0.39	U	0.38	U	0.41	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.43	U	< 1.00	1.00	0.37	U	< 1.00	1.00	0.46	U	< 1.00	1.00
trans-1,3-Dichloropropylene	10061-02-6	~	0.44	U	0.43	U	0.47	U	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	0.5	U	< 1.00	1.00	0.42	U	< 1.00	1.00	0.53	U	< 1.00	1.00
Trichloroethylene	79-01-6	2	**0.42**	D	**26**	D	**7.2**	D	**12.4**	0.20	**10.2**	0.20	**7.14**	0.20	**7.63**	0.20	**5.48**	0.20	< 0.20	0.20	0.15	U	< 0.20	0.20	**0.25**	D	**0.3**	0.20	0.16	U	< 0.20	0.20
Trichlorofluoromethane (Freon 11)	75-69-4	~	**2.3**	D	**1.3**	D	**2.1**	D	**1.49**	1.00	**1.62**	1.00	**1.65**	1.00	**1.77**	1.00	**2.32**	1.00	**1.08**	1.00	**1.4**	D	**1.34**	1.00	**1.3**	D	**1.09**	1.00	1.6	D	**1.16**	1.00
Vinyl acetate	108-05-4	~	0.34	U	0.33	U	0.37	U	NT		NT		NT		NT		NT		NT		0.39	U	NT		0.33	U	NT		0.41	U	NT	
Vinyl bromide	593-60-2	~	0.43	U	0.41	U	0.45	U	NT		NT		NT		NT		NT		NT		0.48	U	NT		0.41	U	NT		0.51	U	NT	
Vinyl Chloride	75-01-4	~	0.12	U	0.12	U	**1**	D	**4.65**	0.20	**4.85**	0.20	**0.25**	0.20	**0.23**	0.20	< 0.20	0.20	< 0.20	0.20	0.14	U	< 0.20	0.20	0.12	U	< 0.20	0.20	0.15	U	< 0.20	0.20
4-Isopropyltoluene	99-87-6	~	NT		NT		NT		< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	NT		< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	NT		< 1.00	1.00
Ethanol	64-17-5	~	NT		NT		NT		**118**	1.00	**143**	1.00	**18.2**	1.00	**35**	1.00	**68.9**	1.00	**132**	1.00	NT		**81.2**	1.00	**26.6**	1.00	**26.6**	1.00	NT		**39.4**	1.00
Isopropylbenzene	98-82-8	~	NT		NT		NT		< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	NT		< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	NT		< 1.00	1.00
n-Butylbenzene	104-51-8	~	NT		NT		NT		< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	NT		< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	NT		< 1.00	1.00
sec-Butylbenzene	135-98-8	~	NT		NT		NT		< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	< 1.00	1.00	NT		< 1.00	1.00	<1.00	1	<1.00	1	NT		< 1.00	1.00

NOTES:
Yellow highlight =NYSDOH Indoor Air Quality Guideline exeedance
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte
RL = Reporting Limit

Table 3
Volatile Organic Compounds in Groundwater (ug/L)
EPA Method 8260
NYSDEC BCP No. C203119

Sample ID			MW-4		MW-6		MW-20		MW-22		MW-23		MW-26		MW-28		SP-1		DW-1		DW-2	
York ID		NYSDEC TOGS	21A0155-01		21A0155-02		23F1755-01		22E0882-01		22E0882-02		CP53375		CP53376		22D1276-01		23C0637-01		23C0637-02	
Sampling Date		Standards and	1/5/21		1/5/21		6/27/23		5/16/22		5/16/22		11/16/2023		11/16/2023		4/25/22		3/9/23		3/9/23	
Client Matrix		Guidance Values - GA	Water		Water		Water		Water		Water		Water		Water		Water		Water		Water	
Compound	**CAS Number**		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	RL	Result	RL			Result	Q	Result	Q
Volatile Organics, NJDEP/TCL/Part 375 List		ug/L	ug/L		ug/L		ug/L		ug/L		ug/L						ug/L		ug/L		ug/L	
Dilution Factor			200		1		100		100		500						200		1		200	
1,1,1,2-Tetrachloroethane	630-20-6	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.216	U	0.216	U
1,1,1-Trichloroethane	71-55-6	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 10	10	< 5.0	5	**250**	D	0.266	U	0.266	U
1,1,2,2-Tetrachloroethane	79-34-5	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.256	U	0.256	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.286	U	0.286	U
1,1,2-Trichloroethane	79-00-5	1	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.249	U	0.249	U
1,1-Dichloroethane	75-34-3	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 10	10	< 5.0	5	40	U	0.272	U	0.272	U
1,1-Dichloroethylene	75-35-4	5	1	U	0.2	U	NT		**5.99**		**70.7**		**0.75**	2	< 1.0	1	40	U	0.327	U	**61.8**	
1,2,3-Trichlorobenzene	87-61-6	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.222	U	0.222	U
1,2,3-Trichloropropane	96-18-4	0.04	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.273	U	0.273	U
1,2,4-Trichlorobenzene	120-82-1	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.138	U	0.138	U
1,2,4-Trimethylbenzene	95-63-6	5	**5.4**	D	**0.24**	J	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.31	U	0.31	U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.432	U	0.432	U
1,2-Dibromoethane	106-93-4	0.0006	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.215	U	0.215	U
1,2-Dichlorobenzene	95-50-1	3	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.27	U	0.27	U
1,2-Dichloroethane	107-06-2	0.6	1	U	0.2	U	NT		0.2	U	0.2	U	< 1.2	1.2	< 0.60	0.6	40	U	0.377	U	0.377	U
1,2-Dichloropropane	78-87-5	1	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.327	U	0.327	U
1,3,5-Trimethylbenzene	108-67-8	5	**1**	JD	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.347	U	0.347	U
1,3-Dichlorobenzene	541-73-1	3	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.283	U	0.283	U
1,4-Dichlorobenzene	106-46-7	3	1	U	0.2	U	NT		0.2	U	**0.36**	J	< 2.0	2	< 1.0	1	40	U	0.311	U	0.311	U
1,4-Dioxane	123-91-1	~	200	U	40	U	NT		40	U	40	U	NT		NT		8000	U	35.3	U	35.3	U
2-Butanone	78-93-3	50	1	U	0.2	U	NT		0.2	U	0.2	U	< 5.0	5	< 2.5	2.5	40	U	**11.3**		0.421	U
2-Hexanone	591-78-6	50	1	U	0.2	U	NT		0.2	U	0.2	U	< 5.0	5	< 2.5	2.5	40	U	0.32	U	0.32	U
4-Methyl-2-pentanone	108-10-1	~	1	U	0.2	U	NT		0.2	U	0.2	U	< 5.0	5	< 2.5	2.5	40	U	0.365	U	0.365	U
Acetone	67-64-1	50	5	U	**2.3**		NT		1	U	1	U	< 10	10	**19**	5	200	U	**9.72**		**37.6**	
Acrolein	107-02-8	~	1	U	0.2	U	NT		0.2	U	0.2	U	< 10	10	< 5.0	5	40	U	0.447	U	0.447	U
Acrylonitrile	107-13-1	~	1	U	0.2	U	NT		0.2	U	0.2	U	< 10	10	< 5.0	5	40	U	0.422	U	0.422	U
Benzene	71-43-2	1	**1**	JD	0.2	U	NT		**1.04**		**0.7**		< 1.4	1.4	< 0.70	0.7	40	U	0.279	U	**1.32**	
Bromochloromethane	74-97-5	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.354	U	0.354	U
Bromodichloromethane	75-27-4	50	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.245	U	0.245	U
Bromoform	75-25-2	50	1	U	0.2	U	NT		0.2	U	0.2	U	< 10	10	< 5.0	5	40	U	0.163	U	0.163	U
Bromomethane	74-83-9	5	**1.2**	JD	0.2	U	NT		0.2	U	0.2	U	< 10	10	< 5.0	5	40	U	0.119	U	0.119	U
Carbon disulfide	75-15-0	~	1	U	**0.23**	J	NT		0.23	J	0.26	J	< 2.0	2	**1.9**	1	40	U	0.362	U	0.362	U
Carbon tetrachloride	56-23-5	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.204	U	0.204	U
Chlorobenzene	108-90-7	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 10	10	< 5.0	5	40	U	0.284	U	0.284	U
Chloroethane	75-00-3	5	1	U	0.2	U	NT		**23.3**		0.2	U	< 10	10	< 5.0	5	40	U	0.448	U	**9.22**	
Chloroform	67-66-3	7	1	U	0.2	U	NT		0.2	U	0.2	U	**1.1**	10	**0.35**	5	40	U	**2.9**		0.243	U
Chloromethane	74-87-3	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 10	10	< 5.0	5	40	U	0.372	U	0.372	U
cis-1,2-Dichloroethylene	156-59-2	5	**21000**	D	**25**		NT		**4620**	D	**31000**	D	**600**	20	< 1.0	1	**10000**	D	**1.37**		**22100**	D
cis-1,3-Dichloropropylene	10061-01-5	0.4	1	U	0.2	U	NT		0.2	U	0.2	U	< 0.80	0.8	< 0.40	0.4	40	U	0.262	U	0.262	U
Cyclohexane	110-82-7	~	5.4	D	**4.1**		NT		**0.53**		**4.19**		NT		NT		40	U	0.491	U	**2.24**	
Dibromochloromethane	124-48-1	50	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.146	U	0.146	U
Dibromomethane	74-95-3	~	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.203	U	0.203	U
Dichlorodifluoromethane	75-71-8	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.451	U	0.451	U
Ethyl Benzene	100-41-4	5	**2**	JD	**0.21**	J	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.29	U	0.29	U
Hexachlorobutadiene	87-68-3	0.5	1	U	0.2	U	NT		0.2	U	0.2	U	< 1.0	1	< 0.50	0.5	40	U	0.241	U	0.241	U
Isopropylbenzene	98-82-8	5	**16**	D	**4.9**		NT		0.2	U	**4.74**		< 2.0	2	< 1.0	1	40	U	0.405	U	**3.41**	
Methyl acetate	79-20-9	~	1	U	0.2	U	NT		0.2	U	0.2	U	NT		NT		40	U	0.442	U	0.442	U
Methyl tert-butyl ether (MTBE)	1634-04-4	10	1	U	0.2	U	NT		**0.35**	J	0.2	U	< 2.0	2	< 1.0	1	40	U	0.33	J	0.244	U
Methylcyclohexane	108-87-2	~	**24**	D	**8**		NT		0.2	U	**6.81**		NT		NT		40	U	0.477	U	**2.77**	
Methylene chloride	75-09-2	5	5	U	1	U	NT		**1.14**	J	1	U	< 6.0	6	< 3.0	3	**430**	D	0.397	U	0.397	U
n-Butylbenzene	104-51-8	5	**8.8**	D	**3**		NT		0.2	U	**0.72**		< 2.0	2	< 1.0	1	40	U	0.399	U	0.399	U
n-Propylbenzene	103-65-1	5	3.7	D	**2.5**		NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.384	U	0.384	U
o-Xylene	95-47-6	5	**1.7**	JD	0.2	U	NT		0.2	U	**5.31**		< 2.0	2	< 1.0	1	40	U	0.261	U	**2.3**	
p- & m- Xylenes	179601-23-1	5	**2.6**	JD	0.5	U	NT		0.5	U	**1.23**		< 2.0	2	< 1.0	1	100	U	0.578	U	0.578	U
p-Isopropyltoluene	99-87-6	5	**5.6**	D	**0.33**	J	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.377	U	0.377	U
sec-Butylbenzene	135-98-8	5	**16**	D	**8.4**		NT		0.2	U	**3.75**		< 2.0	2	< 1.0	1	40	U	0.444	U	**0.87**	
Styrene	100-42-5	5	1	U	0.2	U	NT		0.2	U	0.2	J	< 2.0	2	< 1.0	1	40	U	0.255	U	0.255	U
tert-Butyl alcohol (TBA)	75-65-0	~	2.5	U	0.5	U	NT		0.5	U	0.5	U	NT		NT		100	U	**1.17**		0.608	U
tert-Butylbenzene	98-06-6	5	**1.1**	JD	**0.77**		NT		0.2	U	0.44	J	< 2.0	2	< 1.0	1	40	U	0.367	U	0.367	U
Tetrachloroethylene	127-18-4	5	**2600**	D	**13**		NT		**294**	D	**3460**	D	**290**	20	**0.26**	1	**830**	D	**5.95**		**198**	D
Toluene	108-88-3	5	**2.6**	D	0.2	U	NT		0.27	J	**4.02**		< 2.0	2	< 1.0	1	40	U	**1.64**		**5.2**	
trans-1,2-Dichloroethylene	156-60-5	5	**460**	D	**0.48**	J	NT		**24.5**	JD	**87**	D	**3.4**	10	< 5.0	5	**46**	JD	0.279	U	**144**	D
trans-1,3-Dichloropropylene	10061-02-6	0.4	1	U	0.2	U	NT		0.2	U	0.2	U	**< 0.80**	0.8	< 0.40	0.4	40	U	0.229	U	0.229	U
Trichloroethylene	79-01-6	5	**780**	D	**3.3**		NT		**444**	D	**3360**	D	**110**	2	< 1.0	1	**920**	D	0.249	U	**196**	D
Trichlorofluoromethane	75-69-4	5	1	U	0.2	U	NT		0.2	U	0.2	U	< 2.0	2	< 1.0	1	40	U	0.337	U	0.337	U
Vinyl Chloride	75-01-4	2	**11000**	D	**7.6**		NT		**222**	D	**1710**	D	**14**	2	< 1.0	1	**660**	D	0.469	U	**4640**	D
Xylenes, Total	1330-20-7	5	**4.4**	JD	0.6	U	NT		0.6	U	**6.54**		NT		NT		120	U	0.836	U	**2.72**	
1,1-Dichloropropene	563-58-6	NT	NT		NT		NT		NT		NT		< 2.0	2	< 1.0	1	NT		NT		NT	
1,3-Dichloropropane	142-28-9	NT	NT		NT		NT		NT		NT		< 2.0	2	< 1.0	1	NT		NT		NT	
2,2-Dichloropropane	594-20-7	NT	NT		NT		NT		NT		NT		< 2.0	2	< 1.0	1	NT		NT		NT	
2-Chlorotoluene	95-49-8	NT	NT		NT		NT		NT		NT		< 2.0	2	< 1.0	1	NT		NT		NT	
2-Isopropyltoluene	527-84-4	NT	NT		NT		NT		NT		NT		< 2.0	2	< 1.0	1	NT		NT		NT	
4-Chlorotoluene	106-43-4	NT	NT		NT		NT		NT		NT		< 2.0	2	< 1.0	1	NT		NT		NT	
Bromobenzene	108-86-1	NT	NT		NT		NT		NT		NT		< 2.0	2	< 1.0	1	NT		NT		NT	
Naphthalene	91-20-3	NT	NT		NT		NT		NT		NT		< 2.0	2	< 1.0	1	NT		NT		NT	
Tetrahydrofuran (THF)	109-99-9	NT	NT		NT		NT		NT		NT		< 10	10	< 5.0	5	NT		NT		NT	
trans-1,4-dichloro-2-butene	110-57-6	NT	NT		NT		NT		NT		NT		< 5.0	5	< 2.5	2.5	NT		NT		NT	
Volatile Organics, 8260 List - Low Level		ug/L					ug/L															
Dilution Factor							100															
1,1,1,2-Tetrachloroethane	630-20-6	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,1,1-Trichloroethane	71-55-6	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,1,2,2-Tetrachloroethane	79-34-5	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,1,2-Trichloroethane	79-00-5	1	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,1-Dichloroethane	75-34-3	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,1-Dichloroethylene	75-35-4	5	NT		NT		**5.6**		NT		NT		NT		NT		NT		NT		NT	
1,1-Dichloropropylene	563-58-6	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,2,3-Trichlorobenzene	87-61-6	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,2,3-Trichloropropane	96-18-4	0.04	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,2,4,5-Tetramethylbenzene	95-93-2	~	NT		NT		**4.3**		NT		NT		NT		NT		NT		NT		NT	
1,2,4-Trichlorobenzene	120-82-1	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,2,4-Trimethylbenzene	95-63-6	5	NT		NT		**6.9**		NT		NT		NT		NT		NT		NT		NT	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,2-Dibromoethane	106-93-4	0.0006	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,2-Dichlorobenzene	95-50-1	3	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,2-Dichloroethane	107-06-2	0.6	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,2-Dichloropropane	78-87-5	1	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,3,5-Trimethylbenzene	108-67-8	5	NT		NT		**3**		NT		NT		NT		NT		NT		NT		NT	
1,3-Dichlorobenzene	541-73-1	3	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,3-Dichloropropane	142-28-9	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
1,4-Dichlorobenzene	106-46-7	3	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
2,2-Dichloropropane	594-20-7	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
2-Butanone	78-93-3	50	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
2-Chlorotoluene	95-49-8	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
2-Hexanone	591-78-6	50	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
4-Chlorotoluene	106-43-4	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
4-Methyl-2-pentanone	108-10-1	~	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Acetone	67-64-1	50	NT		NT		**4.6**		NT		NT		NT		NT		NT		NT		NT	
Benzene	71-43-2	1	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Bromobenzene	108-86-1	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Bromochloromethane	74-97-5	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Bromodichloromethane	75-27-4	50	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Bromoform	75-25-2	50	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Bromomethane	74-83-9	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Carbon disulfide	75-15-0	~	NT		NT		0.25	J	NT		NT		NT		NT		NT		NT		NT	
Carbon tetrachloride	56-23-5	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Chlorobenzene	108-90-7	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Chloroethane	75-00-3	5	NT		NT		**4.3**		NT		NT		NT		NT		NT		NT		NT	
Chloroform	67-66-3	7	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Chloromethane	74-87-3	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
cis-1,2-Dichloroethylene	156-59-2	5	NT		NT		**4400**	D	NT		NT		NT		NT		NT		NT		NT	
cis-1,3-Dichloropropylene	10061-01-5	0.4	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Dibromochloromethane	124-48-1	50	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Dibromomethane	74-95-3	~	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Dichlorodifluoromethane	75-71-8	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Ethyl Benzene	100-41-4	5	NT		NT		**1.3**		NT		NT		NT		NT		NT		NT		NT	
Hexachlorobutadiene	87-68-3	0.5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Isopropylbenzene	98-82-8	5	NT		NT		**2.9**		NT		NT		NT		NT		NT		NT		NT	
Methyl tert-butyl ether (MTBE)	1634-04-4	10	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Methylene chloride	75-09-2	5	NT		NT		1	U	NT		NT		NT		NT		NT		NT		NT	
Naphthalene	91-20-3	10	NT		NT		**11**		NT		NT		NT		NT		NT		NT		NT	
n-Butylbenzene	104-51-8	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
n-Propylbenzene	103-65-1	5	NT		NT		**2.6**		NT		NT		NT		NT		NT		NT		NT	
o-Xylene	95-47-6	5	NT		NT		**1.5**		NT		NT		NT		NT		NT		NT		NT	
p- & m- Xylenes	179601-23-1	~	NT		NT		**0.86**	J	NT		NT		NT		NT		NT		NT		NT	
p-Diethylbenzene	105-05-5	~	NT		NT		**6.3**		NT		NT		NT		NT		NT		NT		NT	
p-Ethyltoluene	622-96-8	~	NT		NT		**1.9**		NT		NT		NT		NT		NT		NT		NT	
p-Isopropyltoluene	99-87-6	5	NT		NT		**1.5**		NT		NT		NT		NT		NT		NT		NT	
sec-Butylbenzene	135-98-8	5	NT		NT		**2.7**		NT		NT		NT		NT		NT		NT		NT	
Styrene	100-42-5	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
tert-Butylbenzene	98-06-6	5	NT		NT		**0.3**	J	NT		NT		NT		NT		NT		NT		NT	
Tetrachloroethylene	127-18-4	5	NT		NT		**340**	D	NT		NT		NT		NT		NT		NT		NT	
Toluene	108-88-3	5	NT		NT		**0.41**	J	NT		NT		NT		NT		NT		NT		NT	
trans-1,3-Dichloropropylene	10061-02-6	0.4	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Trichloroethylene	79-01-6	5	NT		NT		**1200**	D	NT		NT		NT		NT		NT		NT		NT	
Trichlorofluoromethane	75-69-4	5	NT		NT		0.2	U	NT		NT		NT		NT		NT		NT		NT	
Vinyl Chloride	75-01-4	2	NT		NT		**200**	D	NT		NT		NT		NT		NT		NT		NT	
Xylenes, Total	1330-20-7	5	NT		NT		**2.4**		NT		NT		NT		NT		NT		NT		NT	

NOTES:
Any Regulatory Exceedences are color coded by Regulation
Yellow highlight = TOGS exceedance
Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
P=this flag is used for pesticide and PCB (Aroclor)
target compounds when there is a % difference
for detected concentrations that exceed method
dictated limits between the two GC columns used
for analysis
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte

Soil Vapor / Indoor Air Matrix A

May 2017

Analytes Assigned:
Trichloroethene (TCE), *cis*-1,2-Dichloroethene (*c*-1,2-DCE), 1,1-Dichloroethene (1,1-DCE), Carbon Tetrachloride

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 0.2	0.2 to < 1	1 and above
< 6	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. No further action	5. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX A

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix B

May 2017

Analytes Assigned:
Tetrachloroethene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), Methylene Chloride

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 3	3 to < 10	10 and above
< 100	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
100 to < 1,000	4. No further action	5. MONITOR	6. MITIGATE
1,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX B

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix C

May 2017

Analytes Assigned:
Vinyl Chloride

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)	
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 0.2	0.2 and above
< 6	1. No further action	3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE
6 to < 60	4. MONITOR	6. MITIGATE
60 and above	7. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) and Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX C

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 0.20 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix D

February 2024

Analytes Assigned:
Benzene, ethylbenzene, naphthalene, cyclohexane, isooctane (2,2,4-trimethylpentane), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, *o*-xylene

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 2	2 to < 10	10 and above
< 60	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) or RESAMPLE or MITIGATE
60 to < 600	4. No further action	5. MONITOR	6. MITIGATE
600 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) or Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX D

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix E

February 2024

Analytes Assigned:
m,p-xylene, heptane, hexane

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 6	6 to < 20	20 and above
< 200	1. No further action	2. No Further Action	3. IDENTIFY SOURCE(S) or RESAMPLE or MITIGATE
200 to < 2,000	4. No further action	5. MONITOR	6. MITIGATE
2,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) or Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX E

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Soil Vapor / Indoor Air Matrix F

February 2024

Analytes Assigned:
Toluene

	INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)		
SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)	< 10	10 to < 50	50 and above
< 300	1. No Further Action	2. No Further Action	3. IDENTIFY SOURCE(S) or RESAMPLE or MITIGATE
300 to < 3,000	4. No Further Action	5. MONITOR	6. MITIGATE
3,000 and above	7. MITIGATE	8. MITIGATE	9. MITIGATE

mcg/m³ = micrograms per cubic meter

No further action: No additional actions are recommended to address human exposures.

Identify Source(s) or Resample or Mitigate: We recommend that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, we recommend the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

Monitor: We recommend monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended to determine whether existing building conditions (e.g., positive pressure heating, ventilation, and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed. The type and frequency of monitoring is determined based on site-, building- and analyte-specific information, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

Mitigate: We recommend mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building -specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

These general recommendations are made with consideration being given to the additional notes on page 2.

ADDITIONAL NOTES FOR MATRIX F

This matrix summarizes actions recommended to address current and potential exposures related to soil vapor intrusion. To use the matrix appropriately as a tool in the decision-making process, the following should be noted:

[1] The matrix is generic. As such, it may be appropriate to modify a recommended action to accommodate analyte-specific, building-specific conditions (e.g., dirt floor in basement, crawl spaces, thick slabs, current occupancy, etc.), and/or factors provided in Section 3.2 of the guidance (e.g., current land use, environmental conditions, etc.). For example, collection of additional samples may be recommended when the matrix indicates "no further action" for a particular building, but the results of adjacent buildings (especially sub-slab vapor results) indicate a need to take actions to address exposures related to soil vapor intrusion. Mitigation might be recommended when the results of multiple contaminants indicate monitoring is recommended. Proactive actions may be proposed at any time. For example, the party implementing the actions may decide to install sub-slab depressurization systems on buildings where the matrix indicates "no further action" or "monitoring." Such an action might be undertaken for reasons other than public health (e.g., seeking community acceptance, reducing costs, etc.). However, actions implemented *in lieu* of sampling will typically be expected to be captured in the final engineering report and site management plan, and might not rule out the need for post-implementation sampling (e.g., to document effectiveness or to support terminating the action).

[2] Actions provided in the matrix are specific to addressing human exposures. Implementation of these actions does not preclude investigating possible sources of soil vapor contamination, nor does it preclude remediating contaminated soil vapor or the source of soil vapor contamination.

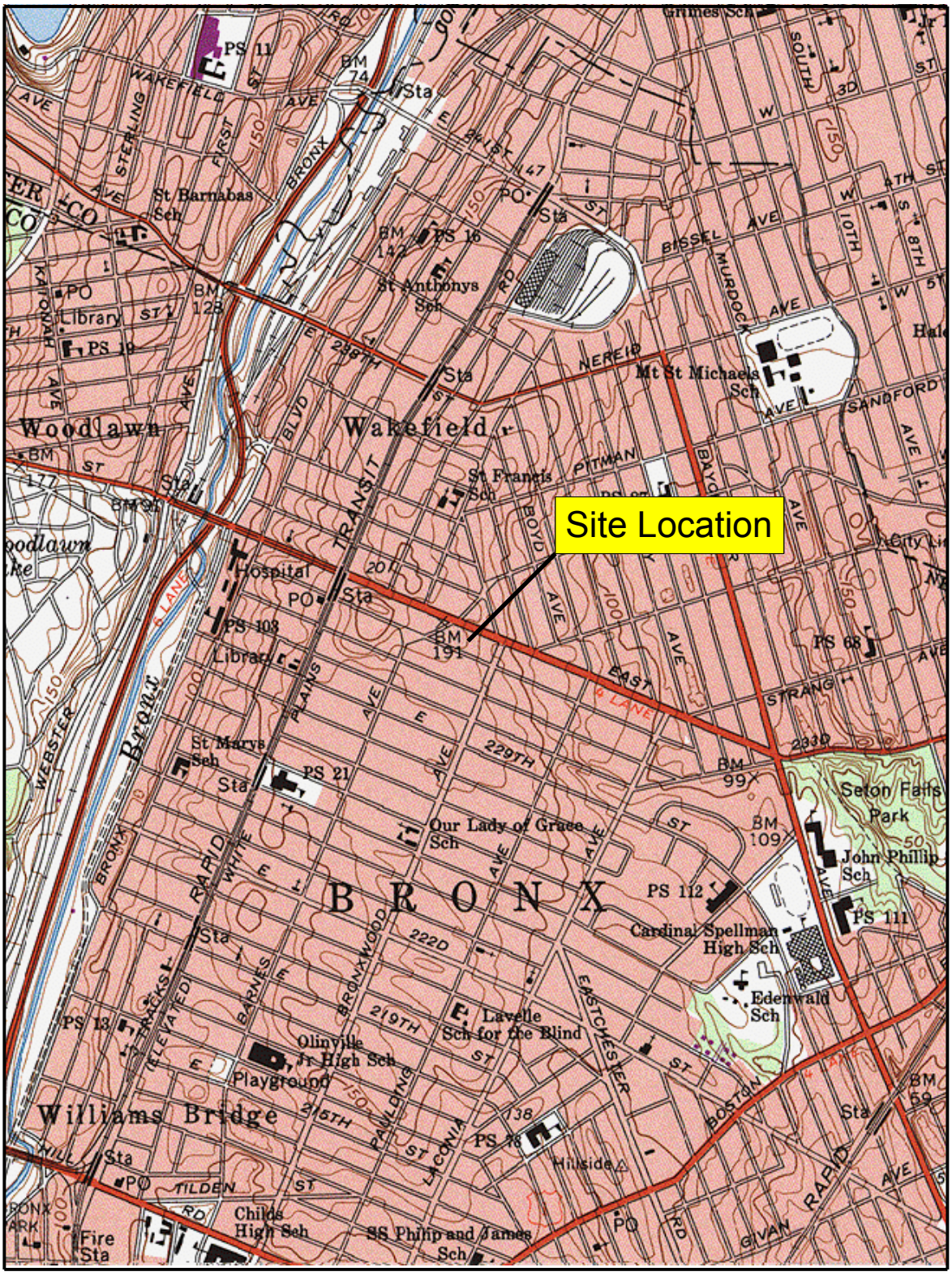
[3] Appropriate care should be taken during all aspects of sample collection to ensure that high quality data are obtained. Since the data are being used in the decision-making process, the laboratory analyzing the environmental samples must have current Environmental Laboratory Approval Program (ELAP) certification for the appropriate analyte and environmental matrix combinations. Furthermore, samples should be analyzed by methods that can achieve a minimum reporting limit of 1 microgram per cubic meter for indoor and outdoor air samples. For sub-slab vapor samples and dirt floor soil vapor samples, a minimum reporting limit of 1 microgram per cubic meter is recommended.

[4] Sub-slab vapor and indoor air samples are typically collected when the likelihood of soil vapor intrusion to occur is considered to be the greatest (i.e., worst-case conditions). If samples are collected at other times (typically, samples collected outside of the heating season), then resampling during worst-case conditions might be appropriate to verify that actions taken to address exposures related to soil vapor intrusion are protective of human health.

[5] When current exposures are attributed to sources other than soil vapor intrusion, the agencies should be given documentation (e.g., applicable environmental data, completed indoor air sampling questionnaire, digital photographs, etc.) to support a proposed action other than that provided in the matrix box and to support agency assessment and follow-up.

[6] The party responsible for implementing the recommended actions will differ depending upon several factors, including but not limited to the following: the identified source of the volatile chemicals, the environmental remediation program, and analyte-specific, site-specific and building-specific factors.

Figures



From USGS 7.5 Minute Topographic Map of Mount Vernon, NY Quadrangle

N

Locational Diagram

Advanced Cleanup Technologies, Inc.
ENVIRONMENTAL CONSULTANTS

110 Main Street, Suite 103, Port Washington, New York 11050
Tel: 516-441-5800 Fax: 516-441-5511

Project No.: 9628-BXNY	Figure No.: 1
Date: 10/18/2018	Scale: Not To Scale

Notes

Title
As-Built Site Diagram

No.	Revision/Issue	Date

Advanced Cleanup Technologies
Environmental Consultants
228 Park Ave S PMB 34864
New York, New York 10003

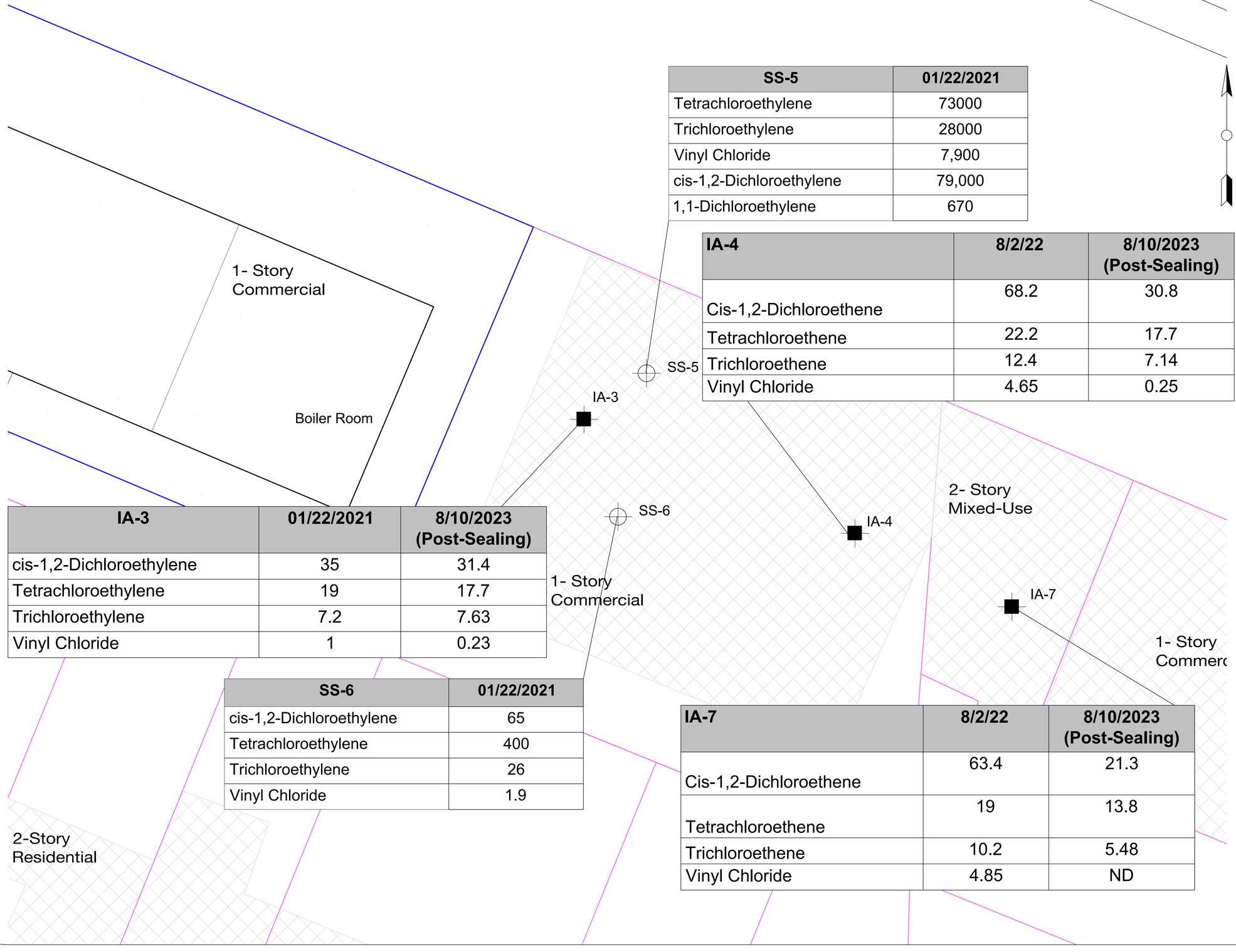
Project Name and Address
Jay Dry Cleaners
840 E 233rd St
Bronx, NY
10466

Project
BCP Site C203119

Figure
2

Date
8/21/2024

Scale
As Noted



SS-5	01/22/2021
Tetrachloroethylene	73000
Trichloroethylene	28000
Vinyl Chloride	7,900
cis-1,2-Dichloroethylene	79,000
1,1-Dichloroethylene	670

IA-4	8/2/22	8/10/2023 (Post-Sealing)
Cis-1,2-Dichloroethene	68.2	30.8
Tetrachloroethene	22.2	17.7
Trichloroethene	12.4	7.14
Vinyl Chloride	4.65	0.25

IA-3	01/22/2021	8/10/2023 (Post-Sealing)
cis-1,2-Dichloroethylene	35	31.4
Tetrachloroethylene	19	17.7
Trichloroethylene	7.2	7.63
Vinyl Chloride	1	0.23

SS-6	01/22/2021
cis-1,2-Dichloroethylene	65
Tetrachloroethylene	400
Trichloroethylene	26
Vinyl Chloride	1.9

IA-7	8/2/22	8/10/2023 (Post-Sealing)
Cis-1,2-Dichloroethene	63.4	21.3
Tetrachloroethene	19	13.8
Trichloroethene	10.2	5.48
Vinyl Chloride	4.85	ND

Notes

Compound unit: ug/m^3

Legend

- BCP Site Boundary
- Offsite Site Boundaries
- Soil Boring/Monitring Well
- Discrete Water Sample
- Soil Boring
- Soil Vapor
- Outdoor Air
- Basement Indoor Air
- Floor 1 Indoor Air
- IRM
- IRM Addendum

Title

Soil Vapor Intrusion Spider Diagram

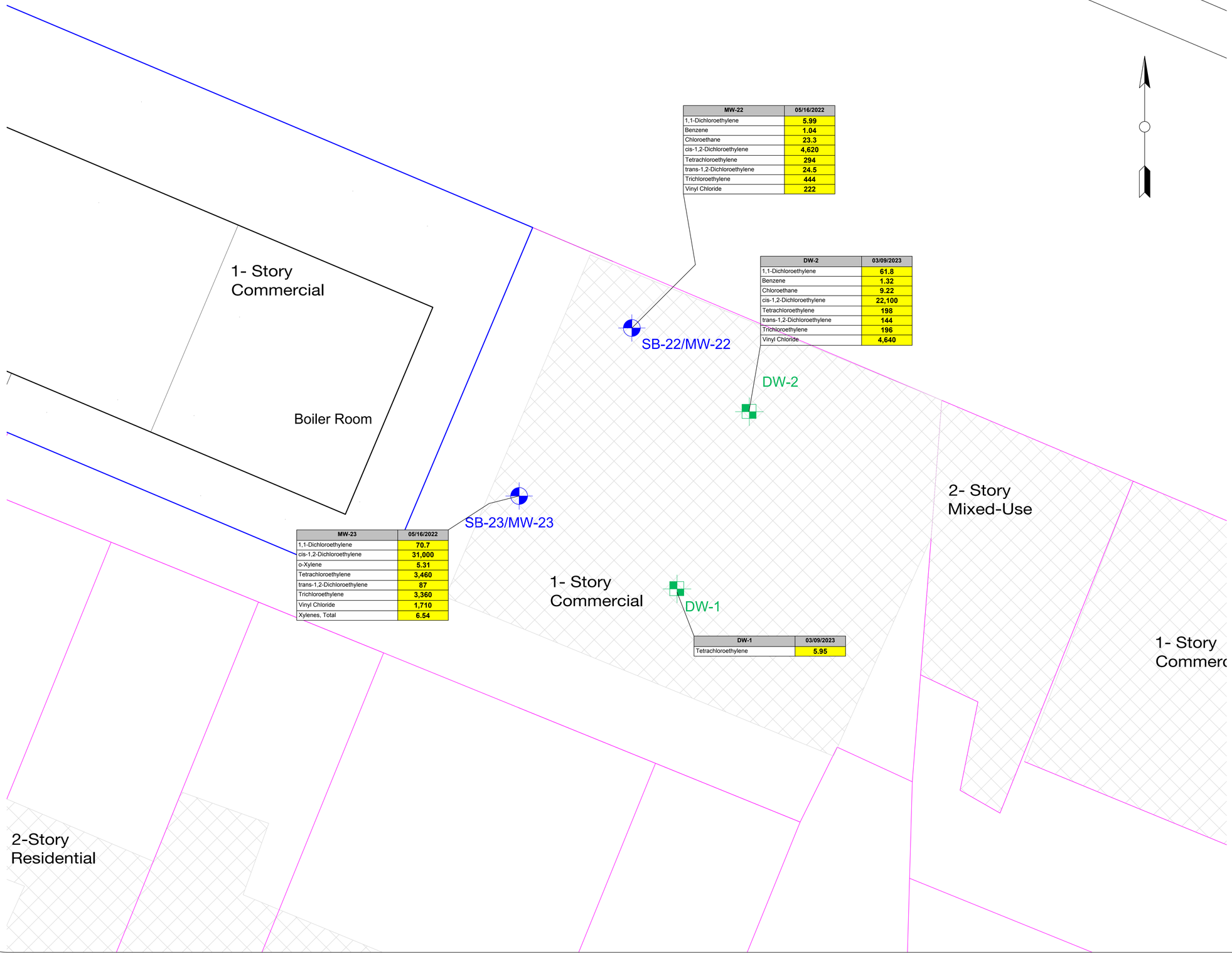
No.	Revision/Issue	Date

Advanced Cleanup Technologies
Environmental Consultants
200 Broadhollow Road-Suite 207
Melville, New York 11747

Project Name and Address

840 East 233rd Street
Bronx, NY 10466

Project	Figure
9628-BXNY	3
Date: 3/10/2025	
Scale: As Noted	



MW-22	05/16/2022
1,1-Dichloroethylene	5.99
Benzene	1.04
Chloroethane	23.3
cis-1,2-Dichloroethylene	4,620
Tetrachloroethylene	294
trans-1,2-Dichloroethylene	24.5
Trichloroethylene	444
Vinyl Chloride	222

DW-2	03/09/2023
1,1-Dichloroethylene	61.8
Benzene	1.32
Chloroethane	9.22
cis-1,2-Dichloroethylene	22,100
Tetrachloroethylene	198
trans-1,2-Dichloroethylene	144
Trichloroethylene	196
Vinyl Chloride	4,640

MW-23	05/16/2022
1,1-Dichloroethylene	70.7
cis-1,2-Dichloroethylene	31,000
o-Xylene	5.31
Tetrachloroethylene	3,460
trans-1,2-Dichloroethylene	87
Trichloroethylene	3,360
Vinyl Chloride	1,710
Xylenes, Total	6.54

DW-1	03/09/2023
Tetrachloroethylene	5.95

Notes

Yellow highlight value exceed the NYSDEC TOGS Standards and Guildance-GA

Compound unit: ug/L
PFAS Unit: ng/L

Legend

	BCP Site Boundary
	Offsite Site Boundaries
	Soil Boring/Monitring Well
	Discrete Water Sample
	Soil Boring
	Soil Vapor
	Outdoor Air
	Basement Indoor Air
	Floor 1 Indoor Air
	IRM
	IRM Addendum

Title

Groundwater Exceedance Diagram

No.	Revision/Issue	Date

Advanced Cleanup Technologies
Environmental Consultants
200 Broadhollow Road-Suite 207
Melville, New York 11747

Project Name and Address

840 East 233rd Street
Bronx, NY 10466

Project	Figure
9628-BXNY	10
Date: 3/11/2025	
Scale: As Noted	

Appendix A:
IRMWP Approval

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

April 22, 2022

Suhak Lee
Attn: Jacob B. Lee
150 County Road, #29
Tenafly, NJ 07670

Re: Jay Dry Cleaners
840 East 233rd Street, Bronx, Bronx County
Brownfield Cleanup Program # C203119
Interim Remedial Measure Work Plan

Dear Mr. Lee:

The New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health, has completed its review of the Interim Remedial Measure Work Plan (IRMWP) dated February 4, 2022, which was prepared by P.W. Grosser Consulting Engineer & Hydrogeologist, P.C. on behalf of Suhak Lee (the Participant). The IRMWP was submitted to NYSDEC under the Brownfield Cleanup Program. The IRMWP is deemed adequate and is hereby approved for implementation.

The Participant and its contractors are solely responsible for safe execution of all invasive and other field work performed under this IRMWP. The Participant and its contractors must obtain all local, state, and/or federal permits or approvals that may be required to perform work under this IRMWP. Further, the Participant and its contractors are solely responsible for the identification of utilities that might be affected by work under this IRMWP and, implementation of all required, appropriate, or necessary health and safety measures during performance of work under this IRMWP.

In accordance with the requirements of the Brownfield Cleanup Agreement and the Citizen Participation Plan, the approved IRMWP must be placed in the project document repositories within 5 business days. Any draft copies of this work plan should be removed. A certification that this document has been placed in the project repositories, and that the repositories are complete with all project documents, must be submitted to the NYSDEC project manager.

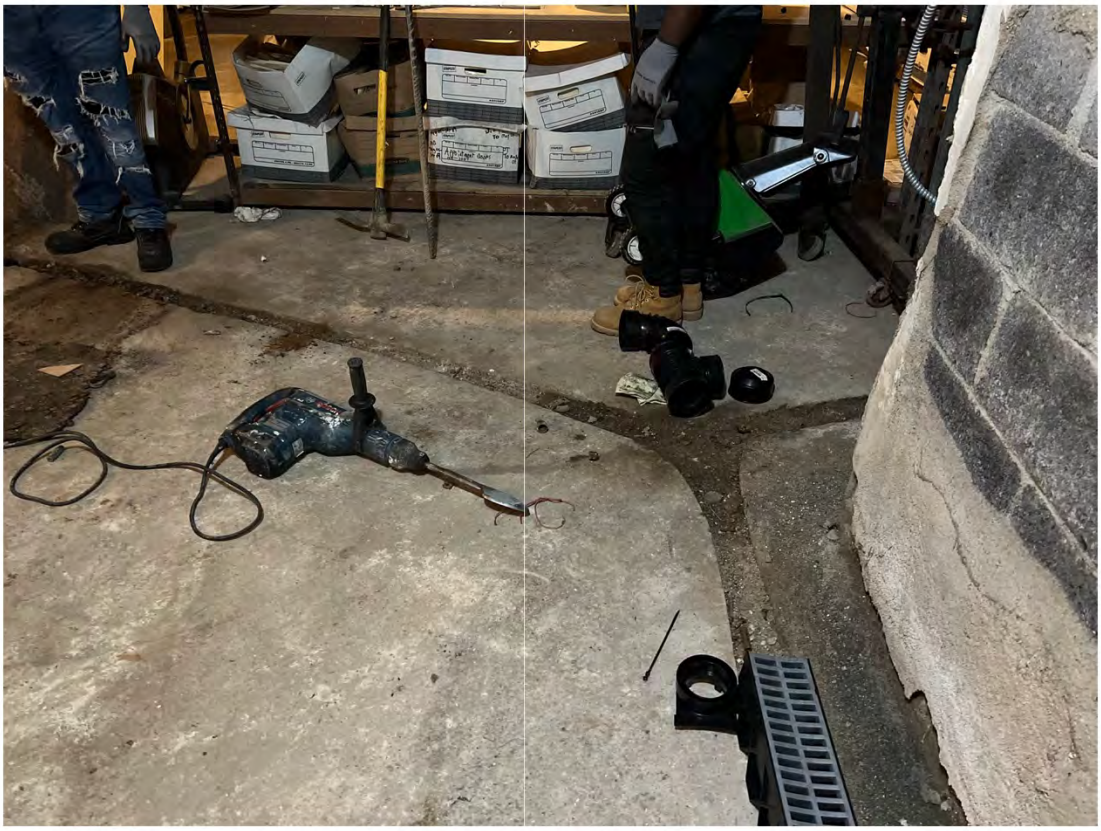
Please notify NYSDEC at least 7 days prior to commencing any field work related to the approved IRMWP. Should you have any questions regarding this letter or any other aspect of the project, please contact me at 718-482-7541 or wendi.zheng@dec.ny.gov.

Regards,

Wendi Zheng
Project Manager

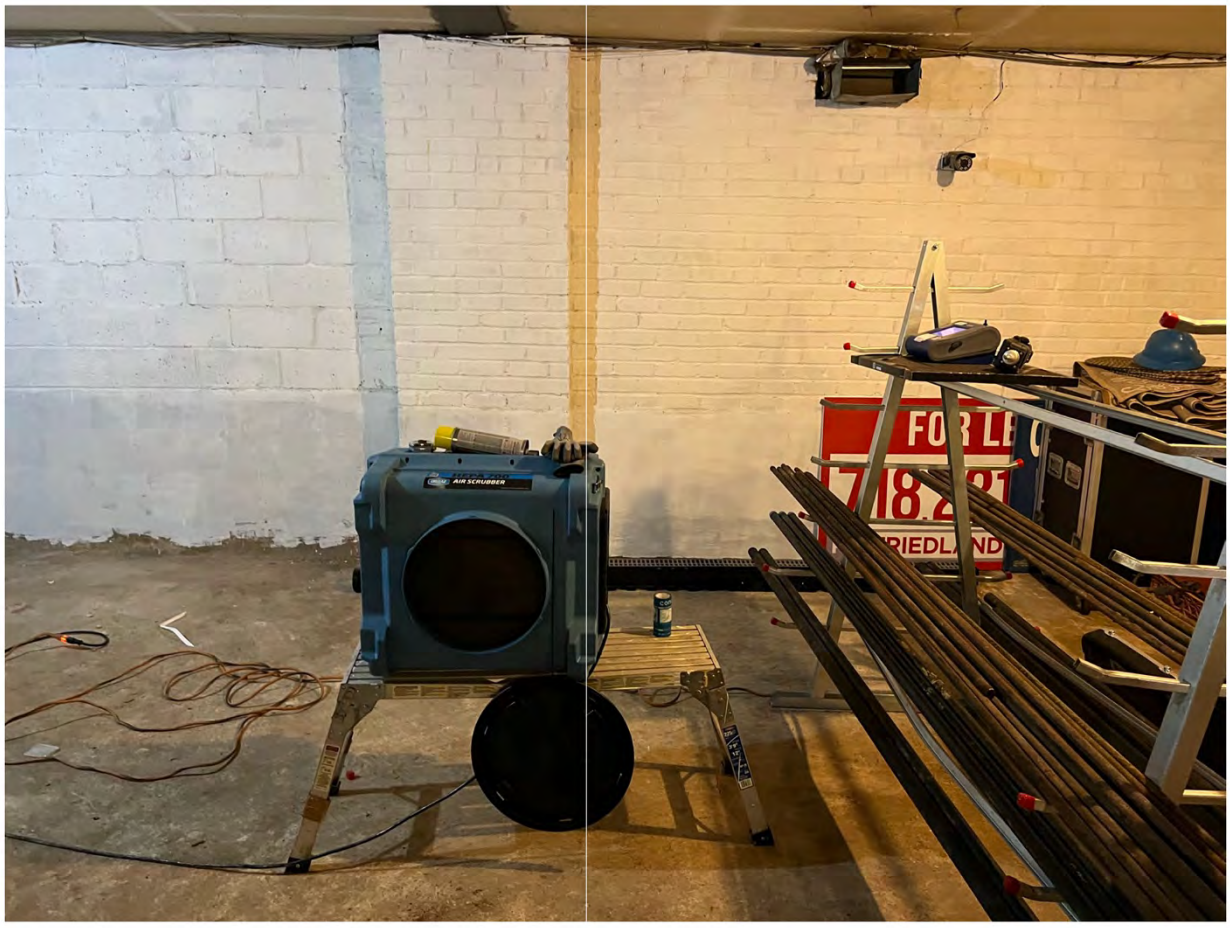
cc: J. O'Connell, C. Maycock, H. Leibowitz – NYSDEC
S. McLaughlin, E. O'Neil – NYSDOH
P. Boyce, R. Morley – PWGC
P. Stewart, J. Stewart – Advanced Cleanup Technologies, Inc.

Appendix B:
Photo Log



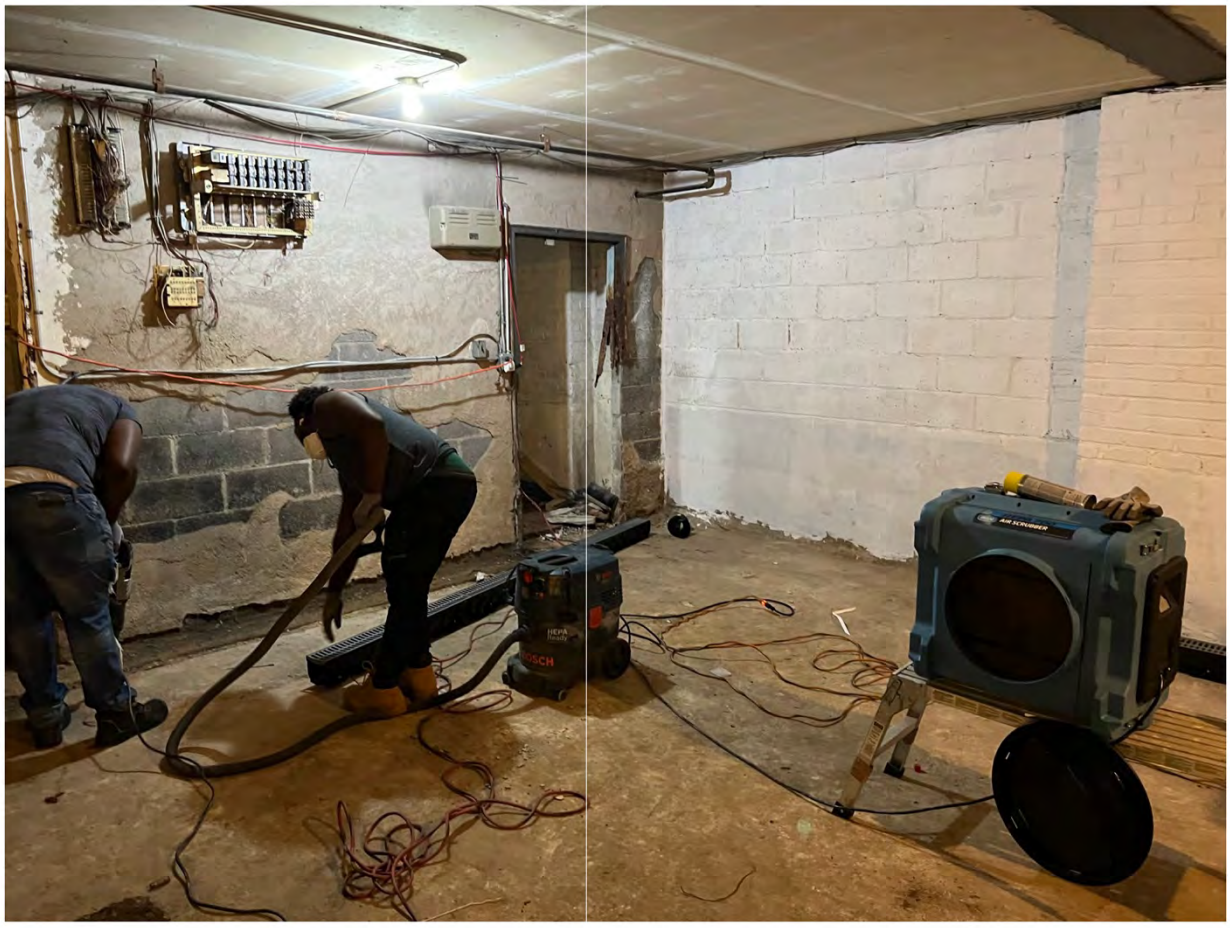
Existing exposed trenches to be sealed during IRM

CAMP Equipment



Dri-Eaz HEPA 700 Air Scrubber with an activated carbon filter

Ventilation Fan during ground intrusive work



Bosch HEPA Dust Collector to collect dust during concrete trench work

Expanded Trenches with Sealed drains and subsurface piping to be installed

Expanded Trenches with Sealed drains and subsurface piping to be installed

Existing concrete gouges that were sealed

Installed Catch basins to replaced brick exposed sumps

Containerized concrete and soil waste

Newly installed catch basin following installation

Newly installed drains following installation

Dewatering Well with Pump

Appendix C:
Waste Manifests

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NYSCE5QG	1	5187813000	2023-8259-ACT

GENERATOR

5. Generator's Name and Mailing Address
COMMERCIAL PROPERTY
840 E 233RD ST
BRONX NY 10466
Generator's Phone: 516 840-2947

Generator's Site Address (if different than mailing address)
864 E 233RD ST
BRONX NY 10466

6. Transporter 1 Company Name
Action Trucking Inc 516-751-3000
U.S. EPA ID Number
NYD064749304

7. Transporter 2 Company Name
Veolia ES Technical Solutions
U.S. EPA ID Number
NJD986138680

8. Designated Facility Name and Site Address
Veolia ES Technical Solutions Inc
1 Eden Lane
Flanders NJ 07836
Facility's Phone: 973 347-1309
U.S. EPA ID Number
NJD980536593

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, non-DOT Regulated Material (Soil Borings and Drilling Spoils)	003	DM	1725	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information 1) MP # 86 (D27, L) (ADVANCED CLEANUP TECHNOLOGIES)

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: X Tom Yang Act
Signature:
Month 3 Day 1 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Carlos Fonseca
Signature:
Month 3 Day 1 Year 23

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

1

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CESQG	1	516-781-3000	2024-1337-ACT

GENERATOR

5. Generator's Name and Mailing Address
Commercial Property
~~840 E 233rd Street~~
Bronx, NY 10466
Generator's Phone: 516-640-2947

Generator's Site Address (if different than mailing address)
864 E. 233 RD.
BRONX NY 10466

6. Transporter 1 Company Name
Action Trucking Co., Inc.
Ph#: 516-781-3000
State ID#: -
U.S. EPA ID Number: NYD064749304

7. Transporter 2 Company Name
Veolia ES Technical Solutions
Ph#: 973-347-7111
U.S. EPA ID Number: NJD080631369

8. Designated Facility Name and Site Address
Veolia ES Technical Solutions Inc
1 Eden Lane
Flanders, NJ 07836
Facility's Phone: 973-347-1909
State ID#: NJ-
U.S. EPA ID Number: NJD980536593

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NONRCRA / NONDOT REGULATED MATERIAL (SOIL BORINGS AND DRILLING SPOILS) Solid	001	DM	625	P	L ID27
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
01: () Soil Borings and Drilling Spoils
WO# 11439042
(Advanced Technologies)
Day received 6/18/24

INT'L

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Christopher Cass
Signature:
Month 6 Day 11 Year 24

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: CARLOS FONSECA
Signature:
Month 6 Day 11 Year 24

Transporter 2 Printed/Typed Name: Joshua Stewart
Signature:
Month 6 Day 17 Year 24

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

1) H141

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: DEANNA TARSUE
Signature:
Month 6 Day 18 Year 24

Appendix D:
CAMP and Field Notes

Drift Trak rental

Trenching Day 1
Drains corrugated

8/22/22

ADVANCED CLEANUP TECHNOLOGIES
COMMUNITY AIR MONITORING LOG

Project/Address: 9628 - BXNY offsite basement

Weather: (AM) rain humid Temperature: (AM) 70's Wind Direction (AM) _____
(PM) humid cloudy (PM) 80's (PM) _____

Location	Time	~~PID Reading~~ PDR	PID
Basement pre-trench	~10AM	0.058 mg/m³	0ppb
trenching	1030	0.058 mg/m3	0ppb
break	1130	0.049 mg/m3	0ppb
trenching	1200	0.357 mg/m3	0ppb
"	1230	0.431 mg/m3	0ppb
"	1pm	0.065 mg/m3	0ppb
"	2PM	0.580 mg/m3	0ppb
break	245	.060	0ppb
pack up	3pm	.050	0ppb
End	330	.056	0ppb

Monitor: Timmy
Name

Signature

Vent fan + HEPA scrubber running

PDR pine rental DustTrak | PID ACT 1ppb Rae | HEPA scrubber running

ADVANCED CLEANUP TECHNOLOGIES
COMMUNITY AIR MONITORING LOG

8/23/22

Project/Address: 9628-BXNY offsite

Weather: (AM) hot Temperature: (AM) 80 Wind Direction (AM) observant
(PM)_____ (PM)_____ (PM)_____

~~Location~~ Activity	Time	~~PID Reading~~ PDR	PID
mobilize 9-10			
Trenching	1000	.208 mg/m³	0ppb
"	1100	.112 mg/m³	0ppb
"	1200	.010 mg/m³	0ppb
break	1300	.022 mg/m³	0ppb
Trenching PDR battery died	1400	-	0ppb
attempt drain fittings	1900	-	0ppb

Monitor: Tim Yang
Name

Signature

HEPA scrubber running

ADVANCED CLEANUP TECHNOLOGIES
COMMUNITY AIR MONITORING LOG

8/24/22

Project/Address: 9628 - BXNY

Weather: (AM) hot (PM) _____ Temperature: (AM) 80's (PM) _____ Wind Direction (AM) _____ (PM) _____

Location	Time	PID Reading

Only @ site a few hours
no trenching or concrete breaking
attempts to seal fittings on
drains pieces
fill bathroom drain w/ gravel
fit drain on end

Didn't set up CAMP- fieldwork cut short

TY

Monitor: TY
Name

Signature

9/7/22

ADVANCED CLEANUP TECHNOLOGIES
COMMUNITY AIR MONITORING LOG

Project/Address: 9628-13XNY off site

Weather: (AM) cool rainy Temperature: (AM) ~70's Wind Direction (AM) basement
(PM) _____ (PM) _____ (PM) _____

Location / Activity	Time	PID Reading PDR mg/m³	PID
mobilize	0915	conc 0.013 TWA 0.010	0 ppb
Filling Trenches	1600	battery dead ✓ replace	0 ppb
prep for trench fill	1015	conc .025 TWA .031	0 ppb
" "	1100	conc .000 TWA .006	0 ppb
same	1130	conc .000 TWA .001	0 ppb
Concret	1245	conc .220 TWA .045	70 ppb (?)
concrete	1330	conc .142 TWA .121	80 ppb
pack up finish up	1405	conc .114 TWA .116	95 ppb

Monitor: Tim Young ACT
Name

Signature

PDR - pine thermo scientific PDR

PID - ACT RAE

HEPA air scrubber running entire time

9/8/22

ADVANCED CLEANUP TECHNOLOGIES
COMMUNITY AIR MONITORING LOG

Project/Address: 9628-BTNY cfs, k

Weather: (AM)_____ Temperature: (AM)_____ Wind Direction (AM)_____
(PM)_____ (PM)_____ (PM)_____

Location	Time	PDR ~~PID Reading~~ PID	
sump work	1000	(	—
sump + grout	1100	.081 .691	48 ppb
"	1200	.031 .100	63 ppb
"	1240	.232 .134	53 ppb
"	1330	.091 .133	60 ppb
catch basin			
trash (pack)	1400	.328 .179	54 ppb
"	1430	.099	50 ppb

* PID needs zero/ calibration

Monitor: Tim Yung ACT
Name

Signature

PDR - Pine thermo scientific PDR

PID - ACT ppb RAE

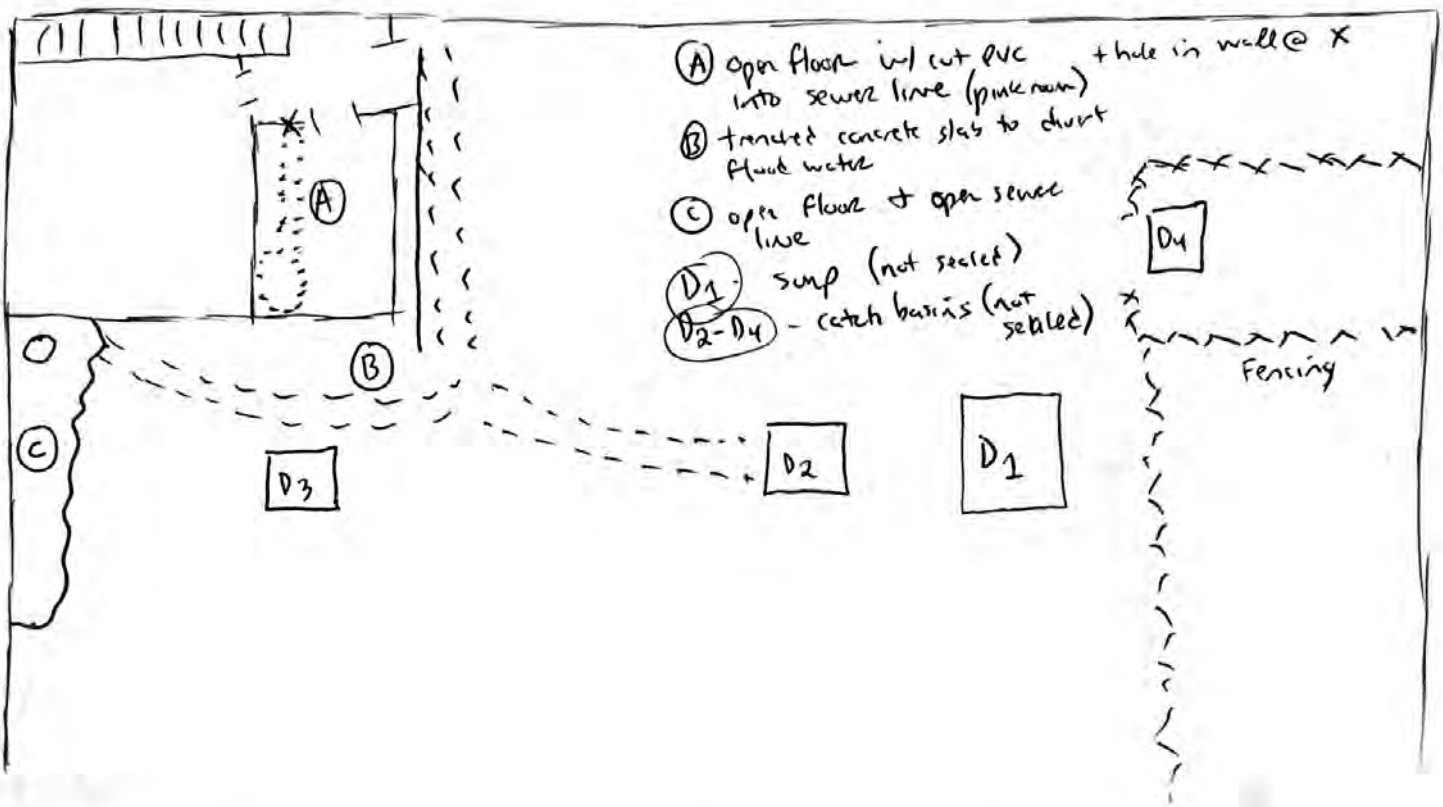
HEPA air scrubber running entire time

9628- BXNY

offsite - drainage - remediation

TY

Before Drains, sump, sealing floor



(A) open floor w/ cut PVC into sewer line (pink room) + hole in wall @ X

(B) trenched concrete slab to divert flood water

(C) open floor & open sewer line

D1 sump (not sealed)

D2-D4 - catch basins (not sealed)

After ACT drains, sewer drains, sump, sealing floor

(A) Previous PVC swapped for new 3" horizontal w/ Drain on 45° @ X
Drain sealed w/ hydraulic cement & non shrink grout
PVC backfilled w/ gravel - sealed w/ high strength
PVC connected to previous open in sewer line
Tested ✓

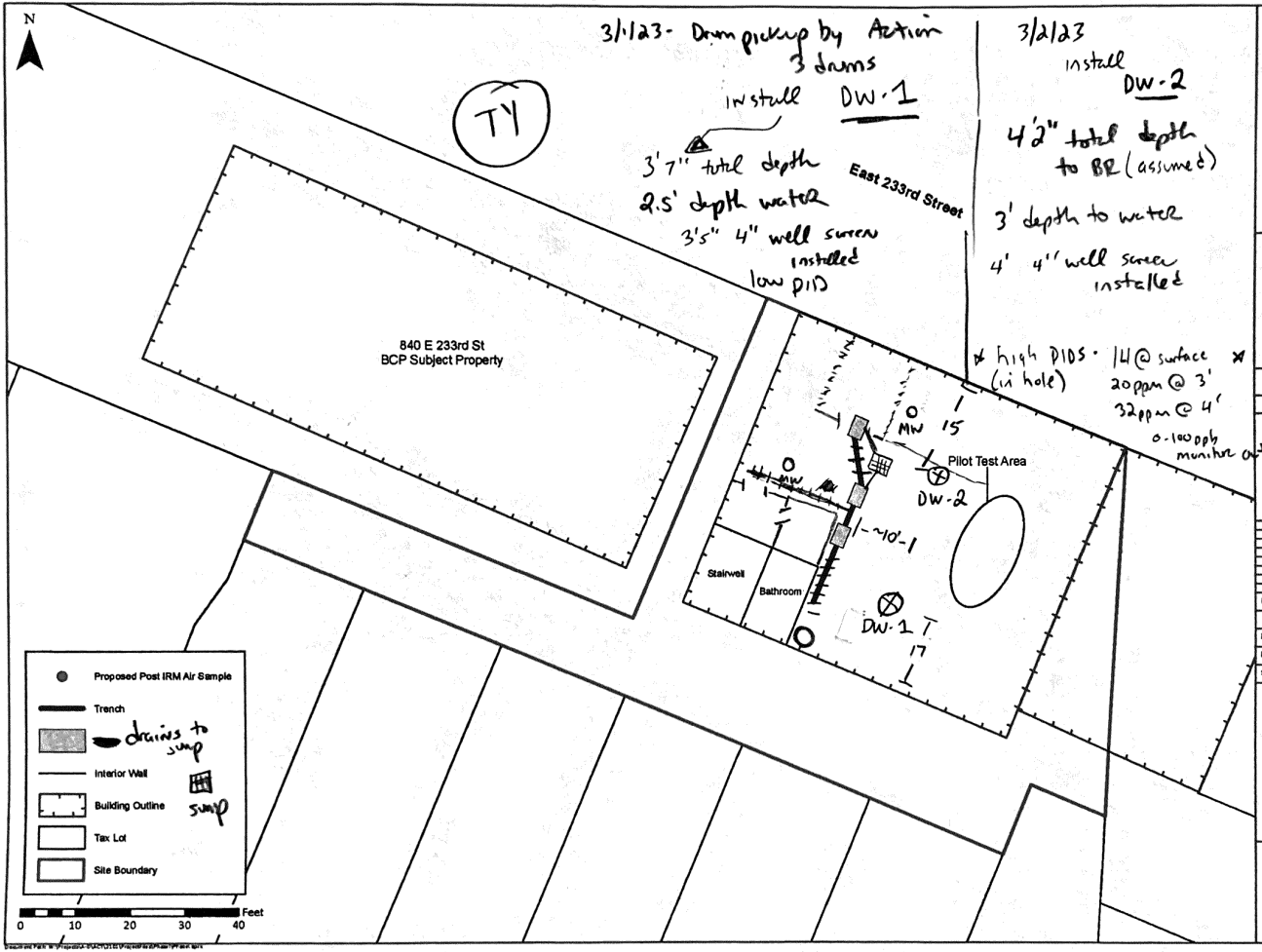
(B) open floor trenching replaced w/ channel drains - set in trench on bedding mason sand, backfilled gravel & sealed w/ non shrink grout - connected to each section, T & catch basins w/ sealed fittings & 4" corrugated piping

(C) Drain installed (as depression) over open sewer line - open ~~flooring~~ broken concrete, chipped out, cleaned up - bedded w/ gravels molded on slopes to depression drain w/ concrete
tested ✓

D1
Open sump replaced w/ sealed sump
set in, backfilled, sealed w/ grout
pipe tubes from D2 & D4 - sump re connected
tested ✓

D2 & D4 - open catch basins replaced w/ sealed catch basins connecting to new sump

D3 - open catch basin backfilled & sealed w/ grout



PWGC
CLIENT DRIVEN SOLUTIONS
P.W. Grosser Consulting, Inc.
630 Johnson Ave., Suite 7
Bohemia, NY 11716
Ph: 631-589-6353 • Fax: 631-589-8705
pwgc.info@pwgrosser.com

DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS

DRAWING INFORMATION:

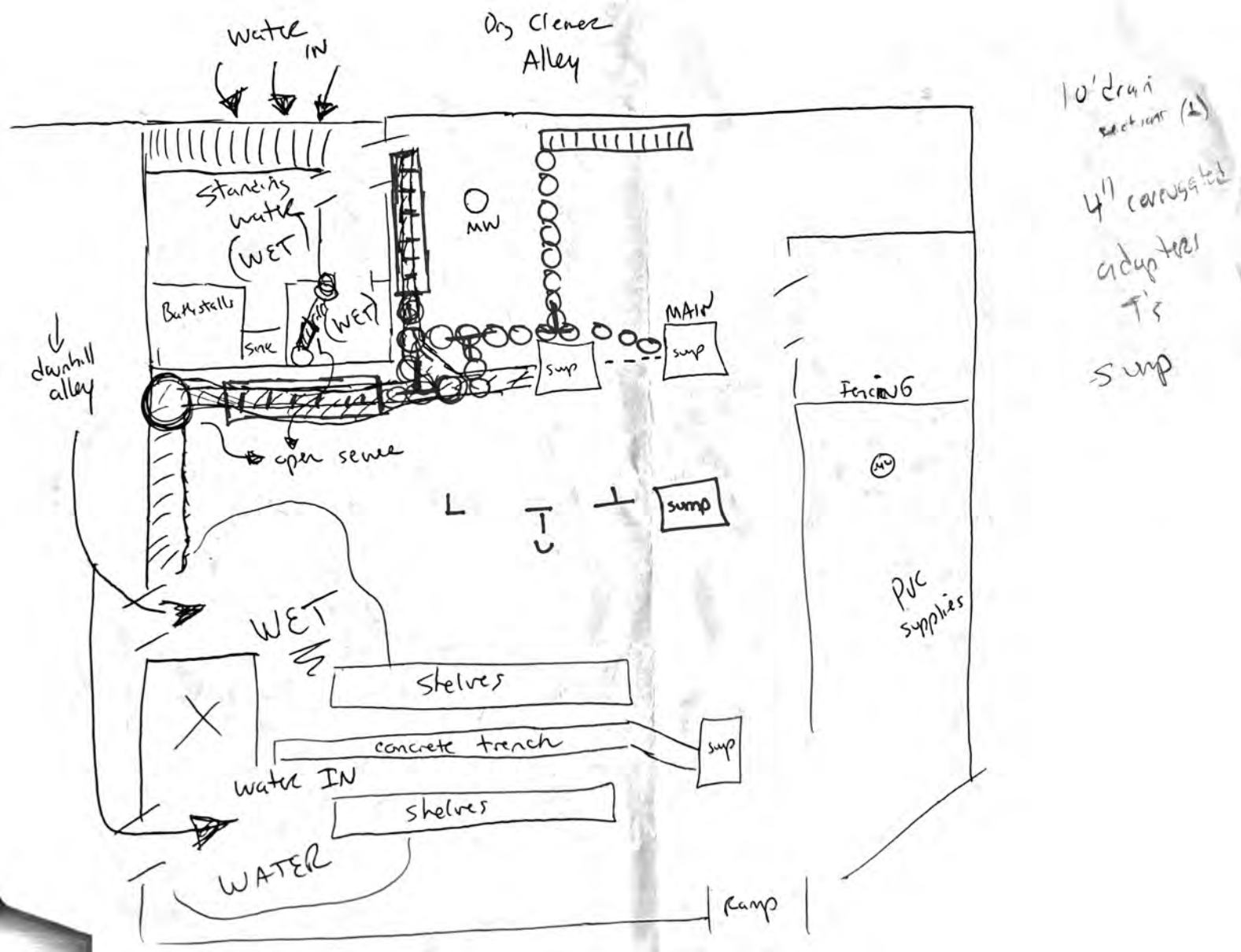
Project:	ACT2101	Designed by:	KM
Date:	12/15/2022	Drawn by:	PH
Scale:	AS SHOWN	Approved by:	KM

SITE PLAN

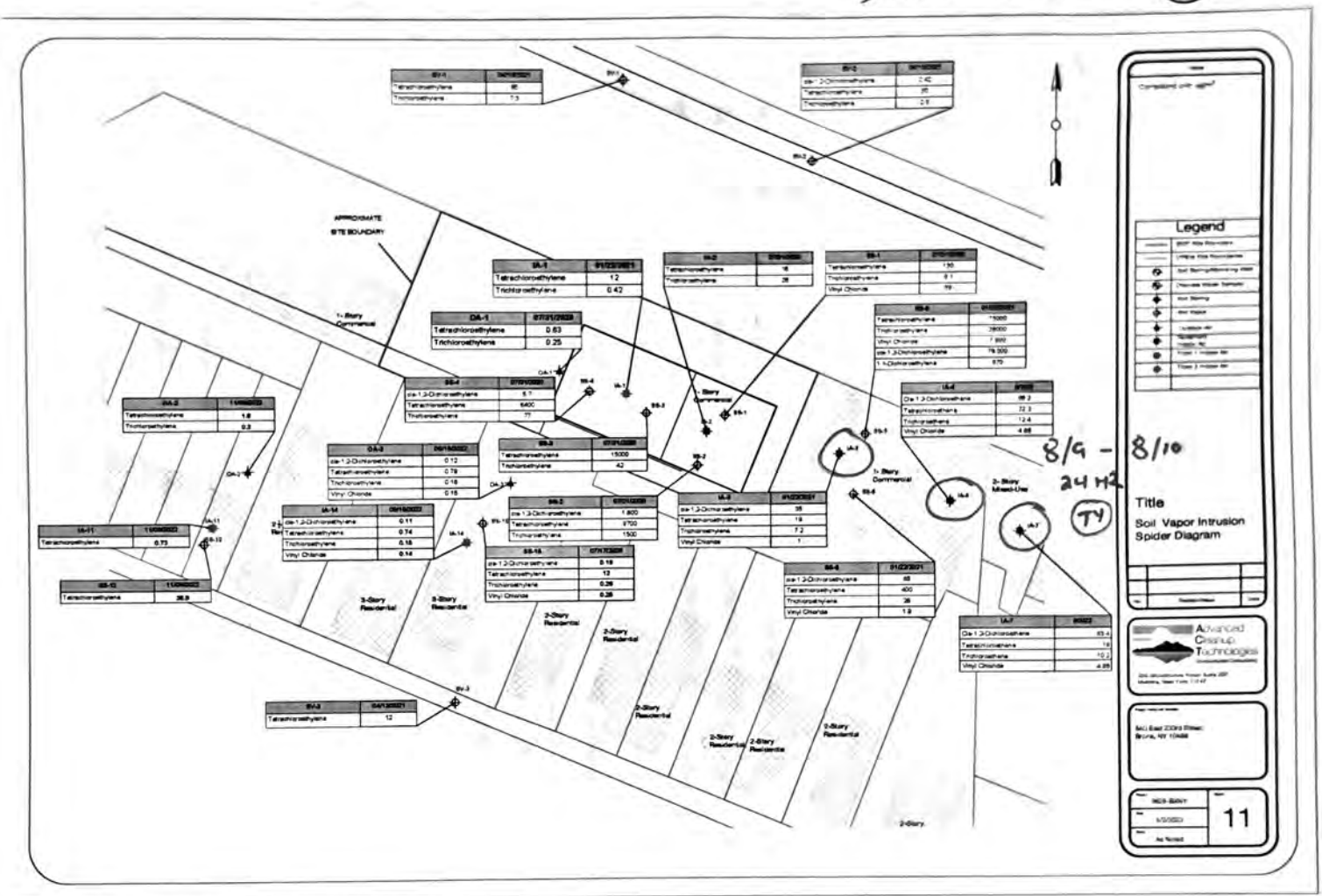
866 E 233rd St.
Bronx, NY

FIGURE NO:

2


Water IN
Dry Cleaner Alley
Standing water (WET
MW
Bathstalls
sink
WET
MAIN
sump
sump
downhill alley
open sewer
Fencing
MW
L
T
U
sump
PVC supplies
WET
Shelves
concrete trench
sump
water IN
shelves
WATER
ramp
10' drain
4" corrugated
adapters
T's
sump

Indoor Air - 24hrs - (TY)



ENVIRONMENTAL CONSULTANTS

110 Main Street, Port Washington, NY

Date: 8/9/23

SAMPLE INFORMATION RECORD

PROJECT NO.: 9628-BXNY Sampling Personnel: TY

Job Locations: Offsite Sampling (Chris. Dasrat) 233rd Bronx

Field Sample Designation: IA-3 Time: _____

SAMPLE TYPE:

GROUNDWATER: _____ SEDIMENT: _____

SURFACE WATER: _____ SOIL: _____

AIR (specify): _____ (soil Vapor, Indoor air, Outdoor air) OTHER (describe): _____

GROUNDWATER INFORMATION:

Depth to Groundwater: _____ Measurement Method: _____

Depth of well or Sampling Point: _____ Measurement Method: _____

Volume of Groundwater Purged: _____ Purge Method: no PID available

FIELD TEST RESULTS:

Color: _____ pH: _____ Odor: _____

Temperature (°F/°C): _____ Specific Conductance (µmhos/cm): _____

Other: PID: _____ ppm Helium Detector: _____ ppm

Canister #: 23348 Initial Pressure: -30 8/9 Start Time: 1430 8/9

Flow Regulator #: 2860 Final Pressure: [illegible] 8/10 End Time: 0910 8/10

-9

SAMPLE ANALYSIS:

_____ _____ _____ _____

_____ _____ _____ _____

REMARKS: IA - 24 HR closest to dry cleaner by the air sub-slab (currently off) remove

ADVANCED GEOLOGY TECHNOLOGIES, INC.
ENVIRONMENTAL CONSULTANTS

110 Main Street, Port Washington, NY

Date: 8/9/23

SAMPLE INFORMATION RECORD

PROJECT NO.: 9628- BXN1/ Sampling Personnel: TY

Job Locations: Offsite Sampling

Field Sample Designation: IA-4 Time: _____

SAMPLE TYPE:

GROUNDWATER: _____ SEDIMENT: _____

SURFACE WATER: _____ SOIL: _____

AIR (specify): _____ (soil Vapor, Indoor air, Outdoor air) OTHER (describe): _____

GROUNDWATER INFORMATION:

Depth to Groundwater: _____ Measurement Method: _____

Depth of well or Sampling Point: _____ Measurement Method: _____

Volume of Groundwater Purged: _____ Purge Method: no PID available

FIELD TEST RESULTS:

Color: _____ pH: _____ Odor: _____

Temperature (°F/°C): _____ Specific Conductance (µmhos/cm): _____

Other: PID: _____ ppm Helium Detector: _____ ppm

Canister #: 28570 Initial Pressure: -30 8/9 Start Time: 1425 8/9

Flow Regulator #: 2854 Final Pressure: -10 8/10 End Time: 0945 8/10

SAMPLE ANALYSIS:

_____ _____ _____ _____

_____ _____ _____ _____

REMARKS: IA - 24 hr - mid basement

ENVIRONMENTAL CONSULTANTS

110 Main Street, Port Washington, NY

Date: 8/9/23

SAMPLE INFORMATION RECORD

PROJECT NO.: 9628-BXNY Sampling Personnel: TY

Job Locations: Offsite Sampling E233rd Bronx

Field Sample Designation: IA-7 Time: _____

SAMPLE TYPE:

GROUNDWATER: _____ SEDIMENT: _____

SURFACE WATER: _____ SOIL: _____

AIR (specify): _____ (soil Vapor, Indoor air, Outdoor air) OTHER (describe): _____

GROUNDWATER INFORMATION:

Depth to Groundwater: _____ Measurement Method: _____

Depth of well or Sampling Point: _____ Measurement Method: _____

Volume of Groundwater Purged: _____ Purge Method: no PID available

FIELD TEST RESULTS:

Color: _____ pH: _____ Odor: _____

Temperature (°F/°C): _____ Specific Conductance (µmhos/cm): _____

Other: PID: _____ ppm Helium Detector: _____ ppm

Canister #: 489 Initial Pressure: -30 8/9/23 Start Time: 1420 8/9/23

Flow Regulator #: 2988 Final Pressure: -7 8/10/23 End Time: 0900 8/10/23

SAMPLE ANALYSIS:

_____ _____ _____ _____

_____ _____ _____ _____

REMARKS: IA - 24hr - Furthest East from dry cleaner

CHAIN OF CUSTODY RECORD
AIR ANALYSES

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

860-645-1102
email: greg@phoenixlabs.com

P.O. # Page 1 of 1

Data Delivery:
☐ Fax #:
☐ Email:
☐ Phone #:

ACT

Report to:	jason Stewart	Project Name:	9268 - BxNY	Data Format: (Circle) Equis Excel Other:	
Customer:	Advanced Cleanup Technologies, Inc.	Invoice to:	Karen Friedman	Requested Deliverable: RCP ASP CAT B	
Address:	228 Park Ave S PMB 34864			MCP NJ Deliverables	
13763	New York, New York 10003	Sampled by:	Yisong Yang / Ray Buzeta	Quote Number:	

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
97621	IA-4	28560	6.0L	-30	[illegible]	5043	3.6	15:00 8/1/22	11:05 8/2/22	8/1/22	-30	-8	✓			✓	
		23338	6.0L	-30		5042	3.6										
97622	IA-7	23330	6.0L	-30	[illegible] -5	5000	3.8	15:00 8/1/22	10:22 8/2/22	8/1/22	-30	-6	✓			✓	

Relinquished by:	Accepted by:	Date:	Time:	
ACT [signature] 8/2/22 13:15 pm	[signature]	8.3.22	10.34	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:
	[signature]	8/3/22	1750	Signature: _____ Date: _____

State Where Samples Collected: _____

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Can # 23338 (3) - 6.0L 24 hr
returned unused

Turnaround Time:
1 Day ☐
2 Day ☐
3 Day ☐
4 Day ☐
5 Day ☐

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C TAC RES SVVC I/C SVVC RES GWV I/C GWV CES	Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial	Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial	Vapor Intrusion	Indoor Air Residential Non-residential	Indoor Air Residential Industrial Sub-slab Residential Industrial

CHAIN OF CUSTODY RECORD
AIR ANALYSES

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823
860-645-1102
email: greg@phoenixlabs.com

ACT

P.O. #

Data Delivery:
- ☐ Fax #:
- ☑ Email:
- ☐ Phone #:

Report to:	Ray Buzeta	Project Name:	9628- BXNY	Data Format: (Circle) Equis (Excel) Other:	
Customer:	Advanced Cleanup Technologies, Inc.	Invoice to:	Karen Friedman	Requested Deliverable: RCP (ASP CAT B)	
Address:	228 Park Ave S PMB 34864			MCP NJ Deliverables	
14905	New York, New York 10003	Sampled by:	Tim Yung	Quote Number:	

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
	THIS SECTION FOR LAB USE ONLY												MATRIX			ANALYSES	
	IA-4	28570	6.0L	-30		2854	3.01	1425	0445	8/9/23	-30	-10	X			X	
	IA-3	23348	6.0L	-30		2860	3.17	1430	0410	8/9/23	-30	-9	X			X	
	IA-7	489	6.0L	-30		2988	3.28	1420	0900	8/9/23	-30	-7	X			X	
								↑	↑								
								8/9/23	8/10/23								

Relinquished by:	Accepted by:	Date:	Time:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: [signature] Date: 8/10/23

State Where Samples Collected: Bronx, NY

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

(S) - 6.0L 24 hr

Turnaround Time:
- ☐ 1 Day*
- ☐ 2 Day*
- ☐ 3 Day*
- ☐ 4 Day*
- ☐ 5 Day*
- ☒ Standard

*SURCHARGES MAY APPLY

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air: Residential Ind/Commercial	Indoor Air: Residential Ind/Commercial	(Vapor Intrusion)	Indoor Air Residential Non-residential	Indoor Air Residential Industrial
TAC RES	Soil Gas: Residential Ind/Commercial	Soil Gas: Residential Ind/Commercial			Sub-slab Residential Industrial
SVVC I/C					
SVVC RES					
GWV I/C					
GWV CES					

Appendix E:
Laboratory Reports

PHOENIX
Environmental Laboratories, Inc.

Wednesday, January 10, 2024

Attn:
Advanced Cleanup Technologies, Inc.
228 Park Ave S PMB 34864
New York, New York 10003

Project ID: 9268-BXNY
SDG ID: GCL97021
Sample ID#s: CL97021 - CL97022

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

Client: Advanced Cleanup Technologies, Inc.

Project: 9268-BXNY

Laboratory Project: GCL97021

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

January 10, 2024 **SDG I.D.: GCL97021**

Advanced Cleanup Technologies, Inc. 9268-BXNY

Methodology Summary

Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

January 10, 2024

SDG I.D.: GCL97021

Advanced Cleanup Technologies, Inc. 9268-BXNY

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CL97021	Volatiles (TO15)	08/02/22	08/03/22	08/03/22	KCA	Y
CL97022	Volatiles (TO15)	08/02/22	08/03/22	08/03/22	KCA	Y

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Sample Id Cross Reference

January 10, 2024

SDG I.D.: GCL97021

Project ID: 9268-BXNY

Client Id	Lab Id	Matrix
IA-4	CL97021	AIR
IA-7	CL97022	AIR

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 10, 2024

FOR: Attn:
Advanced Cleanup Technologies, Inc.
228 Park Ave S PMB 34864
New York, New York 10003

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	YY,RB	08/02/22	11:05
Location Code:	ACT	Received by:	CP	08/03/22	17:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	28560				

Project ID: 9268-BXNY
Client ID: IA-4

Laboratory Data

SDG ID: GCL97021
Phoenix ID: CL97021

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	08/03/22	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	08/03/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	08/03/22	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	08/03/22	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	08/03/22	KCA	1	
1,1-Dichloroethene	0.055	*0.051*	0.051	0.22	*0.20*	0.20	08/03/22	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2,4-Trimethylbenzene	1.21	*0.204*	0.204	5.94	*1.00*	1.00	08/03/22	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	08/03/22	KCA	1	
1,3,5-Trimethylbenzene	0.403	*0.204*	0.204	1.98	*1.00*	1.00	08/03/22	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	08/03/22	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	08/03/22	KCA	1	
1,4-Dichlorobenzene	0.176	*0.166*	0.166	1.06	*1.00*	1.00	08/03/22	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	08/03/22	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	08/03/22	KCA	1	1
4-Ethyltoluene	0.972	*0.204*	0.204	4.78	*1.00*	1.00	08/03/22	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	0.182	ND	*1.00*	1.00	08/03/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	08/03/22	KCA	1	
Acetone	31.0	*0.421*	0.421	73.6	*1.00*	1.00	08/03/22	KCA	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	08/03/22	KCA	1	
Benzene	1.28	*0.313*	0.313	4.09	*1.00*	1.00	08/03/22	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	08/03/22	KCA	1	

Project ID: 9268-BXNY
Client ID: IA-4

Phoenix I.D.: CL97021

Parameter	ppbv Result		ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	0.149	ND	*1.00*	1.00	08/03/22	KCA	1	
Bromoform	ND		*0.097*	0.097	ND	*1.00*	1.00	08/03/22	KCA	1	
Bromomethane	ND		*0.258*	0.258	ND	*1.00*	1.00	08/03/22	KCA	1	
Carbon Disulfide	ND		*0.321*	0.321	ND	*1.00*	1.00	08/03/22	KCA	1	
Carbon Tetrachloride	0.085		*0.032*	0.032	0.53	*0.20*	0.20	08/03/22	KCA	1	
Chlorobenzene	ND		*0.217*	0.217	ND	*1.00*	1.00	08/03/22	KCA	1	
Chloroethane	ND		*0.379*	0.379	ND	*1.00*	1.00	08/03/22	KCA	1	
Chloroform	ND		*0.205*	0.205	ND	*1.00*	1.00	08/03/22	KCA	1	
Chloromethane	0.596		*0.485*	0.485	1.23	*1.00*	1.00	08/03/22	KCA	1	
Cis-1,2-Dichloroethene	17.2		*0.051*	0.051	68.2	*0.20*	0.20	08/03/22	KCA	1	
cis-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	08/03/22	KCA	1	
Cyclohexane	1.81		*0.291*	0.291	6.23	*1.00*	1.00	08/03/22	KCA	1	
Dibromochloromethane	ND		*0.118*	0.118	ND	*1.00*	1.00	08/03/22	KCA	1	
Dichlorodifluoromethane	0.548		*0.202*	0.202	2.71	*1.00*	1.00	08/03/22	KCA	1	
Ethanol	62.8	E	*0.531*	0.531	118	*1.00*	1.00	08/03/22	KCA	1	1
Ethyl acetate	ND		*0.278*	0.278	ND	*1.00*	1.00	08/03/22	KCA	1	1
Ethylbenzene	0.928		*0.230*	0.230	4.03	*1.00*	1.00	08/03/22	KCA	1	
Heptane	1.64		*0.244*	0.244	6.72	*1.00*	1.00	08/03/22	KCA	1	
Hexachlorobutadiene	ND		*0.094*	0.094	ND	*1.00*	1.00	08/03/22	KCA	1	
Hexane	5.37		*0.284*	0.284	18.9	*1.00*	1.00	08/03/22	KCA	1	
Isopropylalcohol	4.48		*0.407*	0.407	11.0	*1.00*	1.00	08/03/22	KCA	1	
Isopropylbenzene	ND		*0.204*	0.204	ND	*1.00*	1.00	08/03/22	KCA	1	
m,p-Xylene	3.21		*0.230*	0.230	13.9	*1.00*	1.00	08/03/22	KCA	1	
Methyl Ethyl Ketone	1.70		*0.339*	0.339	5.01	*1.00*	1.00	08/03/22	KCA	1	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	0.278	ND	*1.00*	1.00	08/03/22	KCA	1	
Methylene Chloride	ND		*0.863*	0.863	ND	*3.00*	3.00	08/03/22	KCA	1	
n-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	08/03/22	KCA	1	1
o-Xylene	1.23		*0.230*	0.230	5.34	*1.00*	1.00	08/03/22	KCA	1	
Propylene	ND		*0.581*	0.581	ND	*1.00*	1.00	08/03/22	KCA	1	1
sec-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	08/03/22	KCA	1	1
Styrene	ND		*0.235*	0.235	ND	*1.00*	1.00	08/03/22	KCA	1	
Tetrachloroethene	3.28		*0.037*	0.037	22.2	*0.25*	0.25	08/03/22	KCA	1	
Tetrahydrofuran	6.13		*0.339*	0.339	18.1	*1.00*	1.00	08/03/22	KCA	1	1
Toluene	7.16		*0.266*	0.266	27.0	*1.00*	1.00	08/03/22	KCA	1	
Trans-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	08/03/22	KCA	1	
trans-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	08/03/22	KCA	1	
Trichloroethene	2.30		*0.037*	0.037	12.4	*0.20*	0.20	08/03/22	KCA	1	
Trichlorofluoromethane	0.265		*0.178*	0.178	1.49	*1.00*	1.00	08/03/22	KCA	1	
Trichlorotrifluoroethane	ND		*0.131*	0.131	ND	*1.00*	1.00	08/03/22	KCA	1	
Vinyl Chloride	1.82		*0.078*	0.078	4.65	*0.20*	0.20	08/03/22	KCA	1	
QA/QC Surrogates/Internals											
% Bromofluorobenzene	99		*%*	%	99	*%*	%	08/03/22	KCA	1	
% IS-1,4-Difluorobenzene	101		*%*	%	101	*%*	%	08/03/22	KCA	1	
% IS-Bromochloromethane	100		*%*	%	100	*%*	%	08/03/22	KCA	1	
% IS-Chlorobenzene-d5	103		*%*	%	103	*%*	%	08/03/22	KCA	1	

Project ID: 9268-BXNY
Client ID: IA-4

Phoenix I.D.: CL97021

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 10, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 10, 2024

FOR: Attn:
Advanced Cleanup Technologies, Inc.
228 Park Ave S PMB 34864
New York, New York 10003

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	YY,RB	08/02/22	10:22
Location Code:	ACT	Received by:	CP	08/03/22	17:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	23330				

Laboratory Data

SDG ID: GCL97021
Phoenix ID: CL97022

Project ID: 9268-BXNY
Client ID: IA-7

Parameter	ppbv Result		ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)											
1,1,1,2-Tetrachloroethane	ND		*0.146*	0.146	ND	*1.00*	1.00	08/03/22	KCA	1	1
1,1,1-Trichloroethane	ND		*0.183*	0.183	ND	*1.00*	1.00	08/03/22	KCA	1	
1,1,2,2-Tetrachloroethane	ND		*0.146*	0.146	ND	*1.00*	1.00	08/03/22	KCA	1	
1,1,2-Trichloroethane	ND		*0.183*	0.183	ND	*1.00*	1.00	08/03/22	KCA	1	
1,1-Dichloroethane	ND		*0.247*	0.247	ND	*1.00*	1.00	08/03/22	KCA	1	
1,1-Dichloroethene	ND		*0.051*	0.051	ND	*0.20*	0.20	08/03/22	KCA	1	
1,2,4-Trichlorobenzene	ND		*0.135*	0.135	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2,4-Trimethylbenzene	1.23		*0.204*	0.204	6.04	*1.00*	1.00	08/03/22	KCA	1	
1,2-Dibromoethane(EDB)	ND		*0.130*	0.130	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2-Dichlorobenzene	ND		*0.166*	0.166	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2-Dichloroethane	ND		*0.247*	0.247	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2-dichloropropane	ND		*0.217*	0.217	ND	*1.00*	1.00	08/03/22	KCA	1	
1,2-Dichlorotetrafluoroethane	ND		*0.143*	0.143	ND	*1.00*	1.00	08/03/22	KCA	1	
1,3,5-Trimethylbenzene	0.406		*0.204*	0.204	1.99	*1.00*	1.00	08/03/22	KCA	1	
1,3-Butadiene	ND		*0.452*	0.452	ND	*1.00*	1.00	08/03/22	KCA	1	
1,3-Dichlorobenzene	ND		*0.166*	0.166	ND	*1.00*	1.00	08/03/22	KCA	1	
1,4-Dichlorobenzene	ND		*0.166*	0.166	ND	*1.00*	1.00	08/03/22	KCA	1	
1,4-Dioxane	ND		*0.278*	0.278	ND	*1.00*	1.00	08/03/22	KCA	1	
2-Hexanone(MBK)	ND		*0.244*	0.244	ND	*1.00*	1.00	08/03/22	KCA	1	1
4-Ethyltoluene	1.03		*0.204*	0.204	5.06	*1.00*	1.00	08/03/22	KCA	1	1
4-Isopropyltoluene	ND		*0.182*	0.182	ND	*1.00*	1.00	08/03/22	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND		*0.244*	0.244	ND	*1.00*	1.00	08/03/22	KCA	1	
Acetone	44.7	E	*0.421*	0.421	106	*1.00*	1.00	08/03/22	KCA	1	
Acrylonitrile	ND		*0.461*	0.461	ND	*1.00*	1.00	08/03/22	KCA	1	
Benzene	1.72		*0.313*	0.313	5.49	*1.00*	1.00	08/03/22	KCA	1	
Benzyl chloride	ND		*0.193*	0.193	ND	*1.00*	1.00	08/03/22	KCA	1	

Project ID: 9268-BXNY
Client ID: IA-7

Phoenix I.D.: CL97022

Parameter	ppbv Result		ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	0.149	ND	*1.00*	1.00	08/03/22	KCA	1	
Bromoform	ND		*0.097*	0.097	ND	*1.00*	1.00	08/03/22	KCA	1	
Bromomethane	ND		*0.258*	0.258	ND	*1.00*	1.00	08/03/22	KCA	1	
Carbon Disulfide	ND		*0.321*	0.321	ND	*1.00*	1.00	08/03/22	KCA	1	
Carbon Tetrachloride	0.081		*0.032*	0.032	0.51	*0.20*	0.20	08/03/22	KCA	1	
Chlorobenzene	ND		*0.217*	0.217	ND	*1.00*	1.00	08/03/22	KCA	1	
Chloroethane	ND		*0.379*	0.379	ND	*1.00*	1.00	08/03/22	KCA	1	
Chloroform	ND		*0.205*	0.205	ND	*1.00*	1.00	08/03/22	KCA	1	
Chloromethane	0.630		*0.485*	0.485	1.30	*1.00*	1.00	08/03/22	KCA	1	
Cis-1,2-Dichloroethene	16.0		*0.051*	0.051	63.4	*0.20*	0.20	08/03/22	KCA	1	
cis-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	08/03/22	KCA	1	
Cyclohexane	2.16		*0.291*	0.291	7.43	*1.00*	1.00	08/03/22	KCA	1	
Dibromochloromethane	ND		*0.118*	0.118	ND	*1.00*	1.00	08/03/22	KCA	1	
Dichlorodifluoromethane	0.502		*0.202*	0.202	2.48	*1.00*	1.00	08/03/22	KCA	1	
Ethanol	76.1	E	*0.531*	0.531	143	*1.00*	1.00	08/03/22	KCA	1	1
Ethyl acetate	ND		*0.278*	0.278	ND	*1.00*	1.00	08/03/22	KCA	1	1
Ethylbenzene	0.995		*0.230*	0.230	4.32	*1.00*	1.00	08/03/22	KCA	1	
Heptane	1.99		*0.244*	0.244	8.15	*1.00*	1.00	08/03/22	KCA	1	
Hexachlorobutadiene	ND		*0.094*	0.094	ND	*1.00*	1.00	08/03/22	KCA	1	
Hexane	6.22		*0.284*	0.284	21.9	*1.00*	1.00	08/03/22	KCA	1	
Isopropylalcohol	4.24		*0.407*	0.407	10.4	*1.00*	1.00	08/03/22	KCA	1	
Isopropylbenzene	ND		*0.204*	0.204	ND	*1.00*	1.00	08/03/22	KCA	1	
m,p-Xylene	3.54		*0.230*	0.230	15.4	*1.00*	1.00	08/03/22	KCA	1	
Methyl Ethyl Ketone	1.17		*0.339*	0.339	3.45	*1.00*	1.00	08/03/22	KCA	1	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	0.278	ND	*1.00*	1.00	08/03/22	KCA	1	
Methylene Chloride	ND		*0.863*	0.863	ND	*3.00*	3.00	08/03/22	KCA	1	
n-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	08/03/22	KCA	1	1
o-Xylene	1.33		*0.230*	0.230	5.77	*1.00*	1.00	08/03/22	KCA	1	
Propylene	1.01		*0.581*	0.581	1.74	*1.00*	1.00	08/03/22	KCA	1	1
sec-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	08/03/22	KCA	1	1
Styrene	ND		*0.235*	0.235	ND	*1.00*	1.00	08/03/22	KCA	1	
Tetrachloroethene	2.80		*0.037*	0.037	19.0	*0.25*	0.25	08/03/22	KCA	1	
Tetrahydrofuran	2.57		*0.339*	0.339	7.57	*1.00*	1.00	08/03/22	KCA	1	1
Toluene	7.10		*0.266*	0.266	26.7	*1.00*	1.00	08/03/22	KCA	1	
Trans-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	08/03/22	KCA	1	
trans-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	08/03/22	KCA	1	
Trichloroethene	1.90		*0.037*	0.037	10.2	*0.20*	0.20	08/03/22	KCA	1	
Trichlorofluoromethane	0.289		*0.178*	0.178	1.62	*1.00*	1.00	08/03/22	KCA	1	
Trichlorotrifluoroethane	ND		*0.131*	0.131	ND	*1.00*	1.00	08/03/22	KCA	1	
Vinyl Chloride	1.90		*0.078*	0.078	4.85	*0.20*	0.20	08/03/22	KCA	1	
QA/QC Surrogates/Internals											
% Bromofluorobenzene	98		*%*	%	98	*%*	%	08/03/22	KCA	1	
% IS-1,4-Difluorobenzene	108		*%*	%	108	*%*	%	08/03/22	KCA	1	
% IS-Bromochloromethane	104		*%*	%	104	*%*	%	08/03/22	KCA	1	
% IS-Chlorobenzene-d5	109		*%*	%	109	*%*	%	08/03/22	KCA	1	

Ver 2

Project ID: 9268-BXNY
Client ID: IA-7

Phoenix I.D.: CL97022

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 10, 2024
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Canister Sampling Information

January 10, 2024

FOR: Attn:
Advanced Cleanup Technologies, Inc.
228 Park Ave S PMB 34864
New York, New York 10003

Location Code: ACT

SDG I.D.: GCL97021

Project ID: 9268-BXNY

						Laboratory					Field			
Client Id	Lab Id	Canister Id	Canister Type	Reg. Id	Chk Out Date	Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-4	CL97021	28560	6.0L	5043	07/19/22	-30	-7	3.6	4	10.5	-30	-8	08/01/22 15:00	08/02/22 11:03
IA-7	CL97022	23330	6.0L	5000	07/19/22	-30	-5	3.8	4.2	10.0	-30	-6	08/01/22 15:00	08/02/22 10:22

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

January 10, 2024

QA/QC Data

SDG I.D.: GCL97021

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 635992 (ppbv), QC Sample No: CL97022 (CL97021, CL97022)													
Volatiles													
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	113	ND	ND	ND	ND	NC	70 - 130	25	
1,1,1-Trichloroethane	ND	0.180	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25	
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	97	ND	ND	ND	ND	NC	70 - 130	25	
1,1,2-Trichloroethane	ND	0.180	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25	
1,1-Dichloroethane	ND	0.250	ND	1.01	106	ND	ND	ND	ND	NC	70 - 130	25	
1,1-Dichloroethene	ND	0.050	ND	0.20	110	ND	0.22	ND	0.056	NC	70 - 130	25	
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	149	ND	ND	ND	ND	NC	70 - 130	25	I
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	98	6.04	6.19	1.23	1.26	2.4	70 - 130	25	
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25	
1,2-Dichlorobenzene	ND	0.170	ND	1.02	101	ND	ND	ND	ND	NC	70 - 130	25	
1,2-Dichloroethane	ND	0.250	ND	1.01	110	ND	ND	ND	ND	NC	70 - 130	25	
1,2-dichloropropane	ND	0.220	ND	1.02	104	ND	ND	ND	ND	NC	70 - 130	25	
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	107	ND	ND	ND	ND	NC	70 - 130	25	
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	95	1.99	1.98	0.406	0.404	NC	70 - 130	25	
1,3-Butadiene	ND	0.450	ND	0.99	120	ND	ND	ND	ND	NC	70 - 130	25	
1,3-Dichlorobenzene	ND	0.170	ND	1.02	105	ND	ND	ND	ND	NC	70 - 130	25	
1,4-Dichlorobenzene	ND	0.170	ND	1.02	103	ND	ND	ND	ND	NC	70 - 130	25	
1,4-Dioxane	ND	0.280	ND	1.01	96	ND	ND	ND	ND	NC	70 - 130	25	
2-Hexanone(MBK)	ND	0.240	ND	0.98	128	ND	ND	ND	ND	NC	70 - 130	25	
4-Ethyltoluene	ND	0.200	ND	0.98	100	5.06	5.01	1.03	1.02	1.0	70 - 130	25	
4-Isopropyltoluene	ND	0.180	ND	0.99	99	ND	ND	ND	ND	NC	70 - 130	25	
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	128	ND	ND	ND	ND	NC	70 - 130	25	
Acetone	ND	0.420	ND	1.00	132	106 E	107	44.7 E	44.9	0.4	70 - 130	25	I
Acrylonitrile	ND	0.460	ND	1.00	129	ND	ND	ND	ND	NC	70 - 130	25	
Benzene	ND	0.310	ND	0.99	98	5.49	5.49	1.72	1.72	0.0	70 - 130	25	
Benzyl chloride	ND	0.190	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25	
Bromodichloromethane	ND	0.150	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25	
Bromoform	ND	0.097	ND	1.00	112	ND	ND	ND	ND	NC	70 - 130	25	
Bromomethane	ND	0.260	ND	1.01	98	ND	ND	ND	ND	NC	70 - 130	25	
Carbon Disulfide	ND	0.320	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25	
Carbon Tetrachloride	ND	0.032	ND	0.20	112	0.51	0.52	0.081	0.083	NC	70 - 130	25	
Chlorobenzene	ND	0.220	ND	1.01	96	ND	ND	ND	ND	NC	70 - 130	25	
Chloroethane	ND	0.380	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25	
Chloroform	ND	0.200	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25	
Chloromethane	ND	0.480	ND	0.99	134	1.30	1.40	0.630	0.676	NC	70 - 130	25	I
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	117	63.4	62.6	16.0	15.8	1.3	70 - 130	25	
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25	
Cyclohexane	ND	0.290	ND	1.00	99	7.43	7.67	2.16	2.23	3.2	70 - 130	25	
Dibromochloromethane	ND	0.120	ND	1.02	110	ND	ND	ND	ND	NC	70 - 130	25	
Dichlorodifluoromethane	ND	0.200	ND	0.99	107	2.48	2.57	0.502	0.520	NC	70 - 130	25	
Ethanol	ND	0.530	ND	1.00	149	143 E	106	76.1 E	56.4	29.7	70 - 130	25	I,r

QA/QC Data

SDG I.D.: GCL97021

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.280	ND	1.01	94	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	92	4.32	4.29	0.995	0.989	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	126	8.15	8.15	1.99	1.99	0.0	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	126	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	111	21.9	22.2	6.22	6.30	1.3	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	130	10.4	8.72	4.24	3.55	17.7	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	95	15.4	15.7	3.54	3.62	2.2	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	129	3.45	3.65	1.17	1.24	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	97	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	125	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	102	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	94	5.77	5.95	1.33	1.37	3.0	70 - 130	25
Propylene	ND	0.580	ND	1.00	98	1.74	1.87	1.01	1.09	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	101	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	96	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	99	19.0	19.0	2.80	2.80	0.0	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	128	7.57	7.75	2.57	2.63	2.3	70 - 130	25
Toluene	ND	0.270	ND	1.02	100	26.7	26.9	7.10	7.15	0.7	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	108	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	102	10.2	10.9	1.90	2.03	6.6	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	107	1.62	1.59	0.289	0.284	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	107	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	108	4.85	4.80	1.90	1.88	1.1	70 - 130	25
% Bromofluorobenzene	96	%	96	%	99	98	99	98	99	NC	70 - 130	25
% IS-1,4-Difluorobenzene	111	%	111	%	110	108	105	108	105	NC	60 - 140	25
% IS-Bromochloromethane	109	%	109	%	106	104	103	104	103	NC	60 - 140	25
% IS-Chlorobenzene-d5	108	%	108	%	119	109	106	109	106	NC	60 - 140	25

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
January 10, 2024

Wednesday, January 10, 2024

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCL97021 - ACT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

CHAIN OF CUSTODY RECORD

AIR ANALYSES

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

860-645-1102

email: greg@phoenixlabs.com

ACT

P.O. # Page 1 of 1

Data Delivery:
- ☐ Fax #:
- ☐ Email:
- ☐ Phone #:

Report to:	jason Stewart	Project Name:	9268 - BxNY	Data Format: (Circle) Equis Excel Other:	
Customer:	Advanced Cleanup Technologies, Inc.	Invoice to:	Karen Friedman	Requested Deliverable: RCP ASP CAT B	
Address:	228 Park Ave S PMB 34864			MCP NJ Deliverables	
13763	New York, New York 10003	Sampled by:	Yisong Yang / Ray Buzzeta	Quote Number:	

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH	
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES		
97021	IA-4	28560	6.0L	-30	[illegible]	5043	3.6	15:00 8/1/22	11:05 8/2/22	8/1/22	-30	-8	✓			✓		
		23338	6.0L	-30		5042	3.6											
97022	IA-7	23330	6.0L	-30	[illegible] -5	5000	3.8	15:00 8/1/22	10:22 8/2/22	8/1/22	-30	-6	✓			✓		

Relinquished by:	Accepted by:	Date:	Time:	
ACT [signature] 8/2/22 13:15	[signature]	8.3.22	10:34	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:
	[signature]	8/3/22	1750	Signature: Date:

State Where Samples Collected:

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Can # 23338 (3) - 6.0L 24 hr
returned unused

Turnaround Time:
- 1 Day ☐
- 2 Day ☐
- 3 Day ☐
- 4 Day ☐
- 5 Day ☐

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air:	Indoor Air:	Vapor Intrusion	Indoor Air	Indoor Air
TAC RES	Residential	Residential		Residential	Residential
SVVC I/C	Ind/Commercial	Ind/Commercial			Industrial
SVVC RES	Soil Gas:	Soil Gas:		Non-residential	Sub-slab
GWV I/C	Residential	Residential			Residential
GWV CES	Ind/Commercial	Ind/Commercial			Industrial

Technical Report

prepared for:

Advanced Cleanup Technologies, Inc.
228 Park Ave S PMB 34864
New York NY, 10003
Attention: Paul Stewart

Report Date: 03/22/2023
Client Project ID: 9628-BXNY
York Project (SDG) No.: 23C0637

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/22/2023
Client Project ID: 9628-BXNY
York Project (SDG) No.: 23C0637

Advanced Cleanup Technologies, Inc.
228 Park Ave S PMB 34864
New York NY, 10003
Attention: Paul Stewart

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 10, 2023 and listed below. The project was identified as your project: **9628-BXNY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23C0637-01	DW-1	Water	03/09/2023	03/10/2023
23C0637-02	DW-2	Water	03/09/2023	03/10/2023

General Notes for York Project (SDG) No.: 23C0637

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 03/22/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: DW-1 **York Sample ID:** 23C0637-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0637	9628-BXNY	Water	March 9, 2023 1:20 pm	03/10/2023

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
78-93-3	**2-Butanone**	**11.3**		ug/L	0.421	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG

Sample Information

Client Sample ID: DW-1 **York Sample ID:** 23C0637-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0637	9628-BXNY	Water	March 9, 2023 1:20 pm	03/10/2023

VOA, 8260 LOW MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
67-64-1	**Acetone**	**9.72**		ug/L	1.34	2.00	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-25-2	Bromoform	ND	CCVE	ug/L	0.163	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
67-66-3	**Chloroform**	**2.90**		ug/L	0.243	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
156-59-2	**cis-1,2-Dichloroethylene**	**1.37**		ug/L	0.294	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
110-82-7	Cyclohexane	ND	QL-02	ug/L	0.491	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-68-3	Hexachlorobutadiene	ND	CCVE	ug/L	0.241	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:04	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: DW-1 **York Sample ID:** 23C0637-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0637	9628-BXNY	Water	March 9, 2023 1:20 pm	03/10/2023

VOA, 8260 LOW MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**0.330**	J	ug/L	0.244	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-65-0	**tert-Butyl alcohol (TBA)**	**1.17**	CCVE, ICVE	ug/L	0.608	1.00	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
127-18-4	**Tetrachloroethylene**	**5.95**		ug/L	0.239	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
108-88-3	**Toluene**	**1.64**		ug/L	0.346	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
1330-20-7	Xylenes, Total	ND		ug/L	0.836	1.50	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:04	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: DW-1 **York Sample ID:** 23C0637-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0637	9628-BXNY	Water	March 9, 2023 1:20 pm	03/10/2023

VOA, 8260 LOW MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*			*69-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*86.3 %*			*79-122*						

Sample Information

Client Sample ID: DW-2 **York Sample ID:** 23C0637-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0637	9628-BXNY	Water	March 9, 2023 12:45 pm	03/10/2023

VOA, 8260 LOW MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG
75-35-4	**1,1-Dichloroethylene**	**61.8**	CCVE	ug/L	0.327	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	03/21/2023 09:54	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/21/2023 09:54	JTG
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/21/2023 09:54	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	03/21/2023 09:54	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	03/21/2023 09:54	JTG

Sample Information

Client Sample ID: DW-2 **York Sample ID:** 23C0637-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0637	9628-BXNY	Water	March 9, 2023 12:45 pm	03/10/2023

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**37.6**		ug/L	1.34	2.00	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	**Benzene**	**1.32**		ug/L	0.279	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND	CCVE	ug/L	0.163	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	**Chloroethane**	**9.22**		ug/L	0.448	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260C Certifications:	03/20/2023 06:45	03/21/2023 09:54	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: DW-2 **York Sample ID:** 23C0637-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0637	9628-BXNY	Water	March 9, 2023 12:45 pm	03/10/2023

VOA, 8260 LOW MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	**cis-1,2-Dichloroethylene**	**22100**		ug/L	58.8	100	200	EPA 8260C	03/21/2023 06:13	03/22/2023 02:23	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
110-82-7	**Cyclohexane**	**2.24**	CCVE, ICVE, QL-02	ug/L	0.491	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-68-3	Hexachlorobutadiene	ND	CCVE	ug/L	0.241	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	**Isopropylbenzene**	**3.41**		ug/L	0.405	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
108-87-2	**Methylcyclohexane**	**2.77**	CCVE	ug/L	0.477	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-47-6	**o-Xylene**	**2.30**		ug/L	0.261	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
135-98-8	**sec-Butylbenzene**	**0.870**		ug/L	0.444	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	ug/L	0.608	1.00	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
127-18-4	**Tetrachloroethylene**	**198**		ug/L	47.8	100	200	EPA 8260C	03/21/2023 06:13	03/22/2023 02:23	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		

Sample Information

Client Sample ID: DW-2 **York Sample ID:** 23C0637-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C0637	9628-BXNY	Water	March 9, 2023 12:45 pm	03/10/2023

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	**Toluene**	**5.20**		ug/L	0.346	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
156-60-5	**trans-1,2-Dichloroethylene**	**144**		ug/L	55.8	100	200	EPA 8260C	03/21/2023 06:13	03/22/2023 02:23	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-01-6	**Trichloroethylene**	**196**		ug/L	49.8	100	200	EPA 8260C	03/21/2023 06:13	03/22/2023 02:23	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-01-4	**Vinyl Chloride**	**4640**		ug/L	93.8	100	200	EPA 8260C	03/21/2023 06:13	03/22/2023 02:23	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
1330-20-7	**Xylenes, Total**	**2.72**		ug/L	0.836	1.50	1	EPA 8260C	03/20/2023 06:45	03/21/2023 09:54	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.0 %*	*79-122*

Analytical Batch Summary

Batch ID: BC31334 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
23C0637-01	DW-1	03/20/23
23C0637-02	DW-2	03/20/23
BC31334-BLK1	Blank	03/20/23
BC31334-BS1	LCS	03/20/23
BC31334-BSD1	LCS Dup	03/20/23

Batch ID: BC31487 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
23C0637-02RE1	DW-2	03/21/23
BC31487-BLK1	Blank	03/21/23
BC31487-BS1	LCS	03/21/23
BC31487-BSD1	LCS Dup	03/21/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31334 - EPA 5030B											
Blank (BC31334-BLK1)											Prepared: 03/20/2023 Analyzed: 03/21/2023
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31334 - EPA 5030B											
Blank (BC31334-BLK1)											Prepared: 03/20/2023 Analyzed: 03/21/2023
Methylene chloride	ND	2.00	ug/L								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.80*		*"*	*10.0*		*98.0*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*79-122*				
LCS (BC31334-BS1)											Prepared & Analyzed: 03/20/2023
1,1,1,2-Tetrachloroethane	9.85		ug/L	10.0		98.5	82-126				
1,1,1-Trichloroethane	10.0		"	10.0		100	78-136				
1,1,2,2-Tetrachloroethane	10.8		"	10.0		108	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	10.2		"	10.0		102	82-123				
1,1-Dichloroethane	10.9		"	10.0		109	82-129				
1,1-Dichloroethylene	11.6		"	10.0		116	68-138				
1,2,3-Trichlorobenzene	8.19		"	10.0		81.9	76-136				
1,2,3-Trichloropropane	10.1		"	10.0		101	77-128				
1,2,4-Trichlorobenzene	8.51		"	10.0		85.1	76-137				
1,2,4-Trimethylbenzene	10.9		"	10.0		109	82-132				
1,2-Dibromo-3-chloropropane	9.45		"	10.0		94.5	45-147				
1,2-Dibromoethane	9.80		"	10.0		98.0	83-124				
1,2-Dichlorobenzene	10.3		"	10.0		103	79-123				
1,2-Dichloroethane	10.3		"	10.0		103	73-132				
1,2-Dichloropropane	12.3		"	10.0		123	78-126				
1,3,5-Trimethylbenzene	11.2		"	10.0		112	80-131				
1,3-Dichlorobenzene	10.3		"	10.0		103	86-122				
1,4-Dichlorobenzene	10.1		"	10.0		101	85-124				
1,4-Dioxane	248		"	210		118	10-349				
2-Butanone	10.0		"	10.0		100	49-152				
2-Hexanone	9.46		"	10.0		94.6	51-146				
4-Methyl-2-pentanone	8.77		"	10.0		87.7	57-145				
Acetone	10.6		"	10.0		106	14-150				
Acrolein	6.55		"	10.0		65.5	10-153				
Acrylonitrile	9.49		"	10.0		94.9	51-150				
Benzene	11.7		"	10.0		117	85-126				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31334 - EPA 5030B											
LCS (BC31334-BS1)								Prepared & Analyzed: 03/20/2023			
Bromochloromethane	11.2		ug/L	10.0		112	77-128				
Bromodichloromethane	10.4		"	10.0		104	79-128				
Bromoform	8.05		"	10.0		80.5	78-133				
Bromomethane	8.87		"	10.0		88.7	43-168				
Carbon disulfide	11.4		"	10.0		114	68-146				
Carbon tetrachloride	10.4		"	10.0		104	77-141				
Chlorobenzene	11.3		"	10.0		113	88-120				
Chloroethane	9.52		"	10.0		95.2	65-136				
Chloroform	10.6		"	10.0		106	82-128				
Chloromethane	10.5		"	10.0		105	43-155				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	10.5		"	10.0		105	80-131				
Cyclohexane	5.76		"	10.0		57.6	63-149	Low Bias			
Dibromochloromethane	9.10		"	10.0		91.0	80-130				
Dibromomethane	10.2		"	10.0		102	72-134				
Dichlorodifluoromethane	9.73		"	10.0		97.3	44-144				
Ethyl Benzene	11.9		"	10.0		119	80-131				
Hexachlorobutadiene	7.39		"	10.0		73.9	67-146				
Isopropylbenzene	11.7		"	10.0		117	76-140				
Methyl acetate	10.2		"	10.0		102	51-139				
Methyl tert-butyl ether (MTBE)	9.13		"	10.0		91.3	76-135				
Methylcyclohexane	12.1		"	10.0		121	72-143				
Methylene chloride	11.1		"	10.0		111	55-137				
n-Butylbenzene	11.6		"	10.0		116	79-132				
n-Propylbenzene	12.3		"	10.0		123	78-133				
o-Xylene	11.5		"	10.0		115	78-130				
p- & m- Xylenes	23.5		"	20.0		118	77-133				
p-Isopropyltoluene	11.1		"	10.0		111	81-136				
sec-Butylbenzene	11.5		"	10.0		115	79-137				
Styrene	11.2		"	10.0		112	67-132				
tert-Butyl alcohol (TBA)	24.5		"	50.0		49.1	25-162				
tert-Butylbenzene	9.68		"	10.0		96.8	77-138				
Tetrachloroethylene	10.2		"	10.0		102	82-131				
Toluene	11.3		"	10.0		113	80-127				
trans-1,2-Dichloroethylene	11.3		"	10.0		113	80-132				
trans-1,3-Dichloropropylene	9.81		"	10.0		98.1	78-131				
Trichloroethylene	11.1		"	10.0		111	82-128				
Trichlorofluoromethane	12.3		"	10.0		123	67-139				
Vinyl Chloride	9.74		"	10.0		97.4	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.46*		*"*	*10.0*		*94.6*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31334 - EPA 5030B											
LCS Dup (BC31334-BSD1)								Prepared: 03/20/2023 Analyzed: 03/21/2023			
1,1,1,2-Tetrachloroethane	9.64		ug/L	10.0		96.4	82-126		2.15	30	
1,1,1-Trichloroethane	9.73		"	10.0		97.3	78-136		2.74	30	
1,1,2,2-Tetrachloroethane	10.6		"	10.0		106	76-129		1.22	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	54-165		4.76	30	
1,1,2-Trichloroethane	10.2		"	10.0		102	82-123		0.293	30	
1,1-Dichloroethane	10.6		"	10.0		106	82-129		2.69	30	
1,1-Dichloroethylene	11.0		"	10.0		110	68-138		5.92	30	
1,2,3-Trichlorobenzene	8.03		"	10.0		80.3	76-136		1.97	30	
1,2,3-Trichloropropane	9.95		"	10.0		99.5	77-128		1.40	30	
1,2,4-Trichlorobenzene	8.42		"	10.0		84.2	76-137		1.06	30	
1,2,4-Trimethylbenzene	10.3		"	10.0		103	82-132		5.37	30	
1,2-Dibromo-3-chloropropane	9.24		"	10.0		92.4	45-147		2.25	30	
1,2-Dibromoethane	9.91		"	10.0		99.1	83-124		1.12	30	
1,2-Dichlorobenzene	9.92		"	10.0		99.2	79-123		3.86	30	
1,2-Dichloroethane	10.3		"	10.0		103	73-132		0.582	30	
1,2-Dichloropropane	12.0		"	10.0		120	78-126		1.98	30	
1,3,5-Trimethylbenzene	10.6		"	10.0		106	80-131		6.33	30	
1,3-Dichlorobenzene	9.72		"	10.0		97.2	86-122		5.70	30	
1,4-Dichlorobenzene	9.73		"	10.0		97.3	85-124		3.34	30	
1,4-Dioxane	242		"	210		115	10-349		2.73	30	
2-Butanone	10.3		"	10.0		103	49-152		2.84	30	
2-Hexanone	9.60		"	10.0		96.0	51-146		1.47	30	
4-Methyl-2-pentanone	8.80		"	10.0		88.0	57-145		0.341	30	
Acetone	10.7		"	10.0		107	14-150		0.845	30	
Acrolein	6.73		"	10.0		67.3	10-153		2.71	30	
Acrylonitrile	9.95		"	10.0		99.5	51-150		4.73	30	
Benzene	11.3		"	10.0		113	85-126		2.87	30	
Bromochloromethane	11.2		"	10.0		112	77-128		0.00	30	
Bromodichloromethane	10.2		"	10.0		102	79-128		1.84	30	
Bromoform	8.13		"	10.0		81.3	78-133		0.989	30	
Bromomethane	8.86		"	10.0		88.6	43-168		0.113	30	
Carbon disulfide	10.8		"	10.0		108	68-146		5.41	30	
Carbon tetrachloride	9.83		"	10.0		98.3	77-141		5.15	30	
Chlorobenzene	10.9		"	10.0		109	88-120		3.61	30	
Chloroethane	8.94		"	10.0		89.4	65-136		6.28	30	
Chloroform	10.3		"	10.0		103	82-128		2.49	30	
Chloromethane	9.94		"	10.0		99.4	43-155		5.57	30	
cis-1,2-Dichloroethylene	10.7		"	10.0		107	83-129		2.86	30	
cis-1,3-Dichloropropylene	10.3		"	10.0		103	80-131		1.83	30	
Cyclohexane	5.44		"	10.0		54.4	63-149	Low Bias	5.71	30	
Dibromochloromethane	9.14		"	10.0		91.4	80-130		0.439	30	
Dibromomethane	10.4		"	10.0		104	72-134		2.24	30	
Dichlorodifluoromethane	9.04		"	10.0		90.4	44-144		7.35	30	
Ethyl Benzene	11.4		"	10.0		114	80-131		4.48	30	
Hexachlorobutadiene	7.27		"	10.0		72.7	67-146		1.64	30	
Isopropylbenzene	10.9		"	10.0		109	76-140		6.80	30	
Methyl acetate	10.7		"	10.0		107	51-139		4.86	30	
Methyl tert-butyl ether (MTBE)	9.46		"	10.0		94.6	76-135		3.55	30	
Methylcyclohexane	11.3		"	10.0		113	72-143		6.50	30	
Methylene chloride	11.0		"	10.0		110	55-137		0.811	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31334 - EPA 5030B											
LCS Dup (BC31334-BSD1)									Prepared: 03/20/2023 Analyzed: 03/21/2023		
n-Butylbenzene	10.8		ug/L	10.0		108	79-132		7.03	30	
n-Propylbenzene	11.5		"	10.0		115	78-133		6.65	30	
o-Xylene	11.1		"	10.0		111	78-130		3.63	30	
p- & m- Xylenes	22.8		"	20.0		114	77-133		3.41	30	
p-Isopropyltoluene	10.3		"	10.0		103	81-136		7.96	30	
sec-Butylbenzene	10.8		"	10.0		108	79-137		6.74	30	
Styrene	10.9		"	10.0		109	67-132		3.26	30	
tert-Butyl alcohol (TBA)	26.6		"	50.0		53.3	25-162		8.21	30	
tert-Butylbenzene	9.03		"	10.0		90.3	77-138		6.95	30	
Tetrachloroethylene	9.63		"	10.0		96.3	82-131		5.36	30	
Toluene	10.8		"	10.0		108	80-127		4.34	30	
trans-1,2-Dichloroethylene	10.8		"	10.0		108	80-132		4.52	30	
trans-1,3-Dichloropropylene	9.80		"	10.0		98.0	78-131		0.102	30	
Trichloroethylene	10.6		"	10.0		106	82-128		5.17	30	
Trichlorofluoromethane	11.7		"	10.0		117	67-139		5.33	30	
Vinyl Chloride	9.24		"	10.0		92.4	58-145		5.27	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.77*		*"*	*10.0*		*97.7*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.96*		*"*	*10.0*		*99.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				
Batch BC31487 - EPA 5030B											
Blank (BC31487-BLK1)									Prepared & Analyzed: 03/21/2023		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31487 - EPA 5030B											
Blank (BC31487-BLK1)											Prepared & Analyzed: 03/21/2023
Bromodichloromethane	ND	0.500	ug/L								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.81*		*"*	*10.0*		*98.1*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.9*		*"*	*10.0*		*109*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.60*		*"*	*10.0*		*96.0*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31487 - EPA 5030B											
LCS (BC31487-BS1)								Prepared & Analyzed: 03/21/2023			
1,1,1,2-Tetrachloroethane	10.1		ug/L	10.0		101	82-126				
1,1,1-Trichloroethane	9.04		"	10.0		90.4	78-136				
1,1,2,2-Tetrachloroethane	11.1		"	10.0		111	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	10.0		104	54-165				
1,1,2-Trichloroethane	10.4		"	10.0		104	82-123				
1,1-Dichloroethane	10.0		"	10.0		100	82-129				
1,1-Dichloroethylene	10.6		"	10.0		106	68-138				
1,2,3-Trichlorobenzene	11.1		"	10.0		111	76-136				
1,2,3-Trichloropropane	10.0		"	10.0		100	77-128				
1,2,4-Trichlorobenzene	10.3		"	10.0		103	76-137				
1,2,4-Trimethylbenzene	11.4		"	10.0		114	82-132				
1,2-Dibromo-3-chloropropane	10.9		"	10.0		109	45-147				
1,2-Dibromoethane	9.68		"	10.0		96.8	83-124				
1,2-Dichlorobenzene	10.9		"	10.0		109	79-123				
1,2-Dichloroethane	9.06		"	10.0		90.6	73-132				
1,2-Dichloropropane	12.5		"	10.0		125	78-126				
1,3,5-Trimethylbenzene	11.7		"	10.0		117	80-131				
1,3-Dichlorobenzene	10.2		"	10.0		102	86-122				
1,4-Dichlorobenzene	10.0		"	10.0		100	85-124				
1,4-Dioxane	197		"	210		93.9	10-349				
2-Butanone	9.64		"	10.0		96.4	49-152				
2-Hexanone	9.42		"	10.0		94.2	51-146				
4-Methyl-2-pentanone	8.78		"	10.0		87.8	57-145				
Acetone	9.66		"	10.0		96.6	14-150				
Acrolein	5.49		"	10.0		54.9	10-153				
Acrylonitrile	8.52		"	10.0		85.2	51-150				
Benzene	10.7		"	10.0		107	85-126				
Bromochloromethane	10.1		"	10.0		101	77-128				
Bromodichloromethane	10.6		"	10.0		106	79-128				
Bromoform	8.24		"	10.0		82.4	78-133				
Bromomethane	8.96		"	10.0		89.6	43-168				
Carbon disulfide	10.4		"	10.0		104	68-146				
Carbon tetrachloride	9.23		"	10.0		92.3	77-141				
Chlorobenzene	11.4		"	10.0		114	88-120				
Chloroethane	9.07		"	10.0		90.7	65-136				
Chloroform	9.56		"	10.0		95.6	82-128				
Chloromethane	9.73		"	10.0		97.3	43-155				
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	10.6		"	10.0		106	80-131				
Cyclohexane	5.29		"	10.0		52.9	63-149	Low Bias			
Dibromochloromethane	9.16		"	10.0		91.6	80-130				
Dibromomethane	10.2		"	10.0		102	72-134				
Dichlorodifluoromethane	8.50		"	10.0		85.0	44-144				
Ethyl Benzene	12.4		"	10.0		124	80-131				
Hexachlorobutadiene	14.8		"	10.0		148	67-146	High Bias			
Isopropylbenzene	12.1		"	10.0		121	76-140				
Methyl acetate	9.25		"	10.0		92.5	51-139				
Methyl tert-butyl ether (MTBE)	8.00		"	10.0		80.0	76-135				
Methylcyclohexane	12.9		"	10.0		129	72-143				
Methylene chloride	10.1		"	10.0		101	55-137				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31487 - EPA 5030B											
LCS (BC31487-BS1)							Prepared & Analyzed: 03/21/2023				
n-Butylbenzene	12.8		ug/L	10.0		128	79-132				
n-Propylbenzene	12.6		"	10.0		126	78-133				
o-Xylene	12.1		"	10.0		121	78-130				
p- & m- Xylenes	24.6		"	20.0		123	77-133				
p-Isopropyltoluene	12.0		"	10.0		120	81-136				
sec-Butylbenzene	12.7		"	10.0		127	79-137				
Styrene	11.4		"	10.0		114	67-132				
tert-Butyl alcohol (TBA)	21.1		"	50.0		42.1	25-162				
tert-Butylbenzene	10.3		"	10.0		103	77-138				
Tetrachloroethylene	10.3		"	10.0		103	82-131				
Toluene	11.8		"	10.0		118	80-127				
trans-1,2-Dichloroethylene	10.1		"	10.0		101	80-132				
trans-1,3-Dichloropropylene	9.87		"	10.0		98.7	78-131				
Trichloroethylene	11.2		"	10.0		112	82-128				
Trichlorofluoromethane	11.6		"	10.0		116	67-139				
Vinyl Chloride	9.10		"	10.0		91.0	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.34*		*"*	*10.0*		*93.4*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.8*		*"*	*10.0*		*108*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.72*		*"*	*10.0*		*97.2*	*79-122*				
LCS Dup (BC31487-BSD1)							Prepared & Analyzed: 03/21/2023				
1,1,1,2-Tetrachloroethane	9.92		ug/L	10.0		99.2	82-126		2.00	30	
1,1,1-Trichloroethane	8.63		"	10.0		86.3	78-136		4.64	30	
1,1,2,2-Tetrachloroethane	11.6		"	10.0		116	76-129		4.15	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.85		"	10.0		98.5	54-165		5.91	30	
1,1,2-Trichloroethane	10.5		"	10.0		105	82-123		0.287	30	
1,1-Dichloroethane	9.32		"	10.0		93.2	82-129		7.14	30	
1,1-Dichloroethylene	9.84		"	10.0		98.4	68-138		7.91	30	
1,2,3-Trichlorobenzene	11.3		"	10.0		113	76-136		1.96	30	
1,2,3-Trichloropropane	10.6		"	10.0		106	77-128		4.95	30	
1,2,4-Trichlorobenzene	10.3		"	10.0		103	76-137		0.292	30	
1,2,4-Trimethylbenzene	10.6		"	10.0		106	82-132		7.29	30	
1,2-Dibromo-3-chloropropane	11.1		"	10.0		111	45-147		1.45	30	
1,2-Dibromoethane	10.0		"	10.0		100	83-124		3.35	30	
1,2-Dichlorobenzene	10.7		"	10.0		107	79-123		1.85	30	
1,2-Dichloroethane	9.23		"	10.0		92.3	73-132		1.86	30	
1,2-Dichloropropane	12.2		"	10.0		122	78-126		2.59	30	
1,3,5-Trimethylbenzene	11.0		"	10.0		110	80-131		6.42	30	
1,3-Dichlorobenzene	9.80		"	10.0		98.0	86-122		4.20	30	
1,4-Dichlorobenzene	9.71		"	10.0		97.1	85-124		3.04	30	
1,4-Dioxane	219		"	210		104	10-349		10.4	30	
2-Butanone	9.36		"	10.0		93.6	49-152		2.95	30	
2-Hexanone	10.1		"	10.0		101	51-146		7.07	30	
4-Methyl-2-pentanone	9.33		"	10.0		93.3	57-145		6.07	30	
Acetone	9.47		"	10.0		94.7	14-150		1.99	30	
Acrolein	5.75		"	10.0		57.5	10-153		4.63	30	
Acrylonitrile	8.96		"	10.0		89.6	51-150		5.03	30	
Benzene	10.3		"	10.0		103	85-126		3.91	30	
Bromochloromethane	10.0		"	10.0		100	77-128		0.993	30	
Bromodichloromethane	10.3		"	10.0		103	79-128		2.78	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31487 - EPA 5030B											
LCS Dup (BC31487-BSD1)								Prepared & Analyzed: 03/21/2023			
Bromoform	8.63		ug/L	10.0		86.3	78-133		4.62	30	
Bromomethane	7.31		"	10.0		73.1	43-168		20.3	30	
Carbon disulfide	9.80		"	10.0		98.0	68-146		5.94	30	
Carbon tetrachloride	8.80		"	10.0		88.0	77-141		4.77	30	
Chlorobenzene	11.0		"	10.0		110	88-120		3.57	30	
Chloroethane	8.29		"	10.0		82.9	65-136		8.99	30	
Chloroform	9.24		"	10.0		92.4	82-128		3.40	30	
Chloromethane	8.28		"	10.0		82.8	43-155		16.1	30	
cis-1,2-Dichloroethylene	9.57		"	10.0		95.7	83-129		6.47	30	
cis-1,3-Dichloropropylene	10.4		"	10.0		104	80-131		1.33	30	
Cyclohexane	4.95		"	10.0		49.5	63-149	Low Bias	6.64	30	
Dibromochloromethane	9.41		"	10.0		94.1	80-130		2.69	30	
Dibromomethane	10.2		"	10.0		102	72-134		0.392	30	
Dichlorodifluoromethane	7.71		"	10.0		77.1	44-144		9.75	30	
Ethyl Benzene	11.7		"	10.0		117	80-131		5.23	30	
Hexachlorobutadiene	14.1		"	10.0		141	67-146		4.71	30	
Isopropylbenzene	11.4		"	10.0		114	76-140		6.30	30	
Methyl acetate	9.63		"	10.0		96.3	51-139		4.03	30	
Methyl tert-butyl ether (MTBE)	8.59		"	10.0		85.9	76-135		7.11	30	
Methylcyclohexane	11.9		"	10.0		119	72-143		8.07	30	
Methylene chloride	9.88		"	10.0		98.8	55-137		2.10	30	
n-Butylbenzene	11.8		"	10.0		118	79-132		7.80	30	
n-Propylbenzene	11.8		"	10.0		118	78-133		7.30	30	
o-Xylene	11.6		"	10.0		116	78-130		4.47	30	
p- & m- Xylenes	23.3		"	20.0		116	77-133		5.40	30	
p-Isopropyltoluene	11.0		"	10.0		110	81-136		8.49	30	
sec-Butylbenzene	11.7		"	10.0		117	79-137		7.78	30	
Styrene	11.1		"	10.0		111	67-132		2.66	30	
tert-Butyl alcohol (TBA)	22.6		"	50.0		45.3	25-162		7.23	30	
tert-Butylbenzene	9.61		"	10.0		96.1	77-138		7.12	30	
Tetrachloroethylene	9.56		"	10.0		95.6	82-131		7.06	30	
Toluene	11.0		"	10.0		110	80-127		6.66	30	
trans-1,2-Dichloroethylene	9.76		"	10.0		97.6	80-132		3.62	30	
trans-1,3-Dichloropropylene	9.94		"	10.0		99.4	78-131		0.707	30	
Trichloroethylene	10.5		"	10.0		105	82-128		6.44	30	
Trichlorofluoromethane	10.8		"	10.0		108	67-139		6.43	30	
Vinyl Chloride	8.13		"	10.0		81.3	58-145		11.3	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.70*		*"*	*10.0*		*97.0*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.7*		*"*	*10.0*		*107*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.63*		*"*	*10.0*		*96.3*	*79-122*				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23C0637-01	DW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23C0637-02	DW-2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23C0437

Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Advanced Cleanup Technologies	Company: ACT	Company: ACT
Address: 225 Park Ave PMB 34864 NY, NY 10003	Address: Same	Address: Same
Phone: (631) 466-4938	Phone.:	Phone.:
Contact: Jason Stewart	Contact: Paul Stewart	Contact: Karen Friedman
E-mail: jasons@act.earth	E-mail: pauls@act.earth	E-mail: KarenF@act.earth

YOUR Project Number: 9628 - BXNY

YOUR Project Name:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

YOUR PO#:

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Tim Young

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)
NYSDEC part 375
TOGS (GA)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
DW-1	GW	3/9/23 1320	VOC	3 VOA's HCL
DW-2	"	" 1245	"	" "

Comments:

Preservation: (check all that apply)
HCl ✓ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

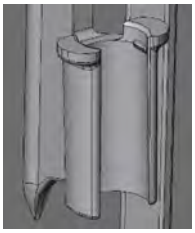
Special Instruction
Field Filtered ____
Lab to Filter ____

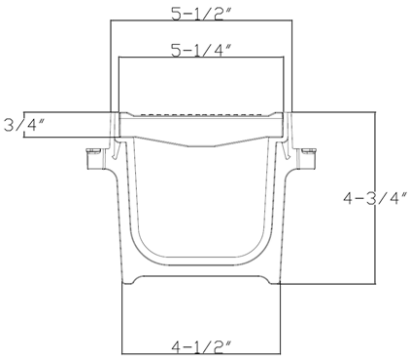
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
ACT FRIDGE	3/10/23 920 AM	KBarkyork	3/10/23 920AM	KBarkyork	3/10/23 1700
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				KBlackburn	3/10/23 1700 / 3.0 Degrees C

Appendix F:
Engineering Controls
Datasheets

5 Inch Pro Series Drain Kit

NDS #864
Polypropylene





Part #: 864 (Includes #814-Grates (2qty.) , #800-Channel (1qty.), #813-End Outlet (1qty.), and #812-End Cap (1qty.)
Material: Channel (Polyolefin) Grates (HDPE)
Color: Light Gray
Fits: 3" (Hub) and 4" (Spigot) Sewer/Drain Pipe
Rebar tie clips for easier installation: Fits #4 Rebar

Grate Opening: 3/8"x 1-1/4"

Open Surface Area: 23.52 Sq. Inch per Ft.

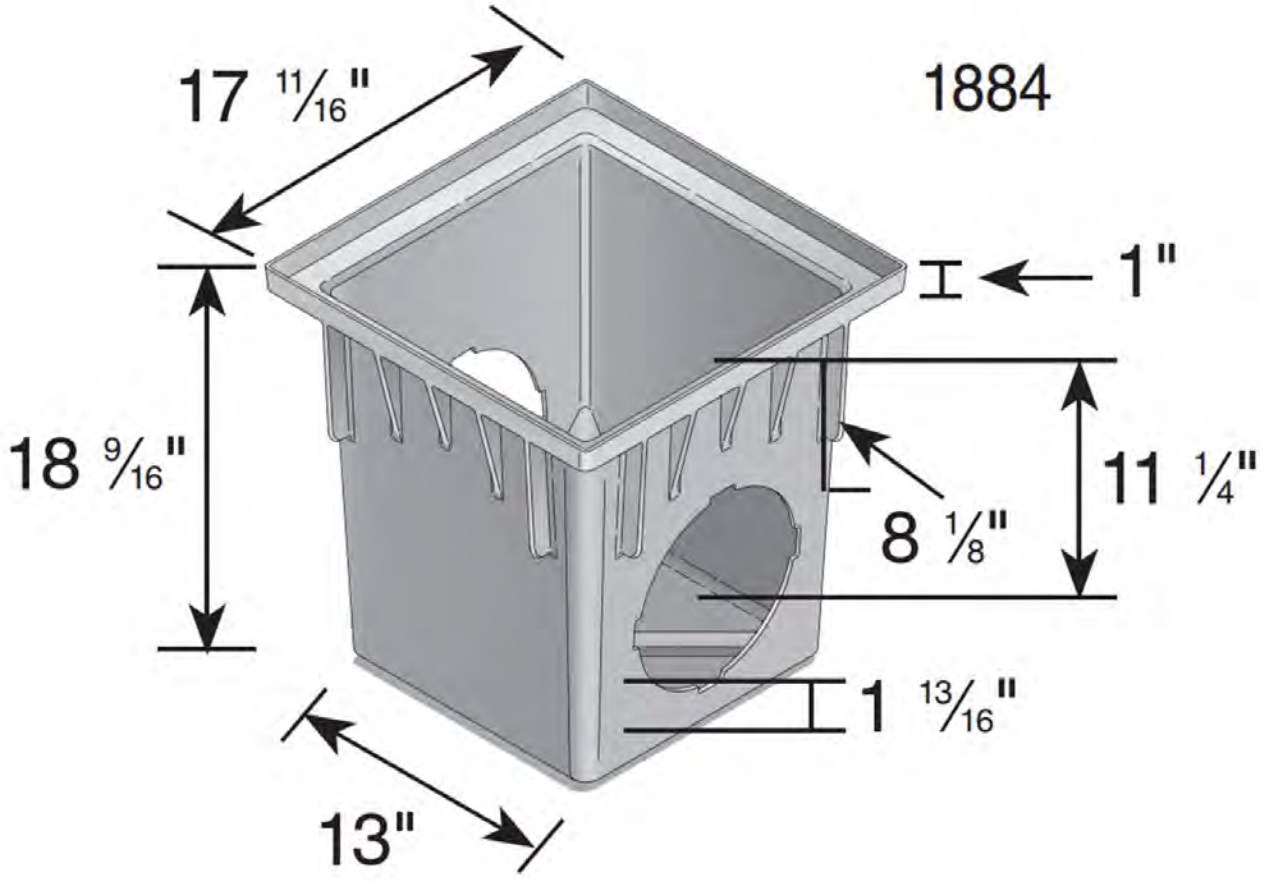
Head Pressure / Flow Rate:
Head (inches) - Max Flow
1" = 101.75 GPM
0.5" = 71.95 GPM
Weight per each: 5.67 lbs.
Screw: #829 Stainless Steel Screw, 4 per grate.
UV Inhibitors

Class B

- Loads of 61-175 psi.
- Recommended for medium-duty pneumatic tire traffic, autos and light trucks at speeds less than 20 m.p.h.

ADA Compliant

18” ONE PIECE CATCH BASIN



Material: UV Protected High Density Polyethylene (HDPE)
Weight: 9.65 lbs
Colors: Black

- 18” One Piece Catch Basin with 2 Openings (1882)
  Includes 2 #1890 Reducer Rings
- 18” One Piece Catch Basin with 4 Openings (1884)
  Includes 4 #1890 Reducer Rings

Requires either #1206, #1242, #1245, #1266, #1888, or #1889 universal outlet to connect pipe

DRI-EAZ

POWERFUL AND QUIET AIR FILTRATION

HEPA 700

PORTABLE HIGH PERFORMANCE AIR PURIFICATION FOR WATER AND FIRE DAMAGE RESTORATION, MOLD REMEDIATION AND CONSTRUCTION

- **Quieter operation** for use in any occupied spaces
- **Filters out 99.99% of dust and mold** with prefilter and true HEPA filter media - passes DOP tests with no additional filters
- **Removes smoke, odors and fumes fast** with optional carbon filter
- **Lightweight and stacks securely** for storage and transport
- **Variable speed** enables fine-tuned airflow for containments or ducted operation
- **24/7 remote monitoring and control** using Command Center app to ensure continuous air filtration

PRO Command Center

NEW COMMAND HUB FOR REMOTE OPERATION FROM ANYWHERE!

FEATURES AND SPECS:

- Variable to 700 CFM with up to 6 ACH in 7000 cu. ft. spaces
- Digital touchscreen displays CFM for better airflow control
- Low amp draw - 1.5 - 3 amps
- Convenient onboard GFCI outlet for connecting up to 8 units on 15-amp circuit
- Rugged injection-molded housing with limited lifetime warranty

MODEL	HEPA 700 (#125105)
AIRFLOW	VARIABLE UP TO 700 CFM
STATIC PRESSURE	3.0 IN. I 7.6 CM (H2O)
WEIGHT	42 LBS. I 19 KG
DIMENSIONS (H×D×W)	23 X 17 X 26 IN. I 57.9 X 43.3 X 65.9 CM
POWER (115V, 60HZ)	1.5 - 3 AMPS
DUCT SIZE	14 IN. I 35.6 CM
XACTIMATE	WTRNAFAN>

Final specifications are subject to change.

LEGEND BRANDS

LegendBrands.com 15180 JOSH WILSON ROAD I BURLINGTON, WA 98233 I 800-932-3030

Appendix G:
Data Usability
Summary Reports

December 8, 2025

Mr. Jason Stewart
Advanced Cleanup Technologies
228 Park Ave S PMB 34864
New York, New York 10003

Re: Data Usability Summary Report – York Analytical Laboratories, Inc. - 20H0017

Dear Mr. Stewart:

The evaluation of analytical data by York Analytical Laboratories for project 9268-BXNY, which were reported in a single data package under Job No. 20H0017 has been completed. The following samples were reported.

SS-1	SS-2	IA-1	SS-3
SS-4	IA-2	OA-1	

Analysis was performed in accordance with EPA Method TO-15 (volatile organics). The review was performed to the extent possible, in accordance with the analytical method, and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. National Functional Guidelines for Organic Data Review was consulted as needed. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	No -see Documentation section and section A.3
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

- The results for all target analytes in all samples are qualified as estimated (J, UJ) because there is no documentation provided to show samples were properly preserved.
- The results for all target analytes in SS-1 are qualified as estimated (J, UJ) due to possible leak during sampling.
- The results for benzyl chloride in all samples are qualified as estimated (UJ) due to high relative standard deviation (RSD) in the initial calibration (IC).
- Based on professional judgment, the results for acetone in SS-1, SS-2, SS-3, SS-4, IA-2 and OA-1 and isopropanol in IA-2 and OA-1 are qualified as estimated (J) due to unacceptable initial calibration.
- The results for 1,4-dioxane and 4-methyl-2-pentanone in all samples are qualified as estimated (UJ) due to low response in the continuing calibration verification (CCV) standard.
- The results for 1,4-dioxane and 4-methyl-2-pentanone in all samples are qualified as estimated (J-, UJ) due to low recovery in the laboratory control sample (LCS).
- Based on professional judgment, samples results less than ten times the quantitation limit in all samples are qualified as estimated (J) because proper canister certification cannot be confirmed.
- The result for isopropanol in IA-1 is qualified as estimated (J) because the reported concentration is outside the calibration range.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C. Annotated Summary Forms are included in Attachment D detailing qualifications resulting from the data review effort.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions

- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
    - Method, instrument blanks
    - Clean canister certification
    - Field blanks
    - Surrogate recoveries
    - LCS recoveries
    - Internal standard area response
    - Duplicates
    - Analyte Identification
- Instrument related quality control data:
    - Instrument tunes
    - Calibration summaries

The following sections of the report detail only quality control exceedances that impacted results. Where a quality control item exceeded control limits but there is no impact to the samples results, these are not detailed in the report.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package. The following documentation issues were observed during the review:

- The data package indicates that the laboratory did not hold certification for ethyl acetate, p-ethyltoluene, propylene, tetrahydrofuran, 1,1,1,2-tetrachloroethane, 1,3-dichloropropane, and 2-hexanone. It is noted that NY ELAP does not offer certification for ethyl acetate, p-ethyltoluene, propylene, tetrahydrofuran and 2-hexanone, but does offer certification for 1,1,1,2-tetrachloroethane and 1,3-dichloropropane. The laboratory was contacted to request clarification. The laboratory stated '*Given the age of the project, it is difficult to ascertain the exact circumstances in which these compounds were requested. We don't typically report non-certified compounds, except at the request of the client, so it can be safely assumed that there was correspondence regarding the accreditation status of the compounds at the time the samples were taken. Just to note- while these compounds are indeed non-certified under our scope of accreditation between 2020-2022, we ran the compounds in the exact same way we ran our certified compounds – quantitated against a multiple calibration, where they were properly qualified as specified by our certifying body*.'

- The data package does not include the clean canister certification data. The laboratory was contacted and was requested to provide the missing documentation. The laboratory stated '*our standard archival period is three years and due to this data*

*being older than that we won't be able to obtain the additional docu*ments.' See Section A.3.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of July 31, 2020. The samples were received at the laboratory on the same day on August 3, 2020. The samples were analyzed within method hold time. However, the data package does contain sample receipt information regarding condition of canisters upon receipt. The laboratory was contacted for clarification and stated '*Any anomalous receipt data would be denoted in the case narrative. If there was nothing listed there wasn't any anomalous activity, but we've opened a corrective action to improve this process.'* Since there is no evidence that the samples were properly preserved (pressure inside the canister maintained within +/- 5 psi from sampling to check in the laboratory or analysis), the results for all target analytes in all samples are qualified as estimated (J, UJ).

The COC indicates that the 'canister gauge didn't move much' for sample SS-1. The initial canister vacuum is recorded at -30mm Hg and the final canister vacuum at -22 mmHg, indicating very little sample was collected and the possibility of a leak existed. On this basis, the results for all target analytes in SS-1 are qualified as estimated (J, UJ).

A. Volatile Organics

1. Calibration

One initial calibration (IC) was performed in support of the sample analysis. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients are acceptable with the exceptions noted below.

Analyte	**RSD**
Acetone	100.5
Benzyl chloride	32.3
Isopropanol	82.1

The laboratory applied quadratic equations to achieve an acceptable correlation coefficient and used this model to quantitate sample concentrations. However, a review of the individual calibration levels indicates a severe lack of instrument sensitivity in the lower calibration standards as presented below.

Analyte	**RRF 50**	**RRF 30**	**RRF 20**	**RRF 10**	**RRF 3**	**RRF 0.5**	**RRF 0.2**	**RRF 0.1**
Acetone	1.171301	1.16144	1.19475	1.22118	1.386964	**4.44930**	**6.520248**	**10.42493**

Benzyl chloride	0.211000	0.207986	0.20257	0.20066	0.197759	**0.11883**	**0.096370**	**0.09877**
Isopropanol	1.332178	1.318993	1.36216	1.40152	1.693545	**4.94095**	**6.122283**	**8.010574**

The high RSD (32.3) for benzyl chloride is caused by the low responses in the two lowest calibration standards. Benzyl chloride is not detected in any samples. The results for benzyl chloride in all samples are qualified as estimated (UJ) due to high RSD in the initial calibration.

The high RSDs for acetone and isopropanol are caused by excessively high response factors in the three lowest concentration standards. The validator calculated the RSD with these three standards excluded, and the RSDs are:

- Acetone: 7.52% RSD, average relative response factor = 1.22711.
- Isopropanol: 39.1% RSD, average relative response factor=1.421679.

The recalculated sample concentrations using the updated average relative response factors are presented below:

Sample	**Reported Acetone (on-column ppbv)**	**Recalculated Acetone (on-column ppbv)**	**%D**
SS-1	5.79	6.18	6.7
SS-2	3.91	4.47	14.3
IA-1	42.22	40.21	4.8
SS-3	5.18	5.62	8.5
SS-4	2.18	2.91	33.5
IA-2	4.46	4.97	11.4
OA-1	3.97	4.5	13.4
Sample	**Reported Isopropanol (on-column ppbv)**	**Recalculated Isopropanol (on-column ppbv)**	**%D**
SS-1	ND	NA	NA
SS-2	ND	NA	NA
IA-1	213.18 (E)	214.2	0.5
SS-3	ND	NA	NA
SS-4	ND	NA	NA
IA-2	1.19	1.91	60.5
OA-1	2.80	3.36	20.0

ND-not detected
NA-not applicable

Where the difference in concentration is less than 5%, no action is taken. Where the difference in concentation exceeds 5% sample results are qualified as estimated (J-), biased low due to unacceptable calibration, as follows:

- Acetone in SS-1, SS-2, SS-3, SS-4, IA-2, and OA-1.
- Isopropanol in IA-2 and OA-1.

A second source ICV standard was analyzed after the IC, and all percent differences are acceptable (≤30%D). CCVs were analyzed at the appropriate frequency and are acceptable (%D≤30) with the exceptions noted below.

Analyte	%D	Associated Sample	Qualifier Applied
CCV 07/07/20 18:12			
1,4-Dioxane	-32.9	SS-1 SS-2 IA-1 SS-3 SS-4 IA-2 OA-1	J, UJ
4-Methyl-2-pentanone	-31.1		

The percent differences represent a decrease in instrument sensitivity. The results for 1,4-dioxane and 4-methyl-2-pentanone in all samples are qualified as estimated (UJ) due to low response in the CCV.

2. Laboratory Control Sample (LCS) /LCS Duplicate (LCSD)

One LCS was prepared and analyzed with the sample. All recoveries are acceptable (70-130%R), with the following exceptions:

Analyte	LCS %R	Affected Sample	Qualifier Applied
BH00312-BS1			
1,4-Dioxane	65.3	SS-1 SS-2 IA-1 SS-3 SS-4 IA-2 OA-1	J-, UJ
4-Methyl-2-pentanone	68.0		

The results for 1,4-dioxane and 4-methyl-2-pentanone in all samples are qualified as estimated (J-, UJ) due to low recovery in the LCS.

3. Compound Quantitation

As noted in **Documentation** section, the laboratory did not provide clean canister certification data. Since clean canister certification data is not available, it cannot be confirmed whether the canisters used for sampling were properly cleaned and free of background contamination. This uncertainty introduces potential impacts to sample results, including the possibility that detected compounds may originate from residual contamination within the canisters rather than the sampled environment. As a result, accuracy cannot be fully assured, and reported concentrations may not reliably represent actual ambient conditions. Based on professional judgment, samples results less than ten times the quantitation limit in all samples are qualified as estimated (J) because proper canister certification cannot be confirmed.

The result for isopropanol in IA-1 is qualified as estimated (J) because the reported concentration is outside the calibration range.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

YORK Project No. 20H0017

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Advanced Cleanup Tech	Company: ACT	Company: ACT	9628-BXNY	RUSH - Next Day
Address: 200 Broadhollow Rd. Melville, NY	Address: Same	Address: Same	YOUR Project Name	RUSH - Two Day
Phone.: 516-441-5800	Phone.:	Phone.:		RUSH - Three Day
Contact: Chelsea Fornacci	Contact: Paul Stewart	Contact: Karen Friedman		RUSH - Four Day
E-mail: chelsea@act-earth	E-mail: paul@act-earth	E-mail: karen@act-earth	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Tim Young

Samples Collected by: (print your name above and sign below)

T-Y

Air Matrix Codes

- AI - Indoor Ambient Air
- AO - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - Soil Vapor/Sub-Slab

Samples From

- New York X
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- NY ASP A Package
- NY ASP B Package
- Other:
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliv.
- NJDKQP
- Standard Excel EDD
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDEP SRP HazSite

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SS-1	7/31/20 10-1400	AS	-30	-22	28303	7087	* TO-15
SS-2	" "	"	-30	-12	23197	6873	"
IA-1	" "	AI	-30	-8	34496	5116	"
SS-3	" "	AS	-30	-8	24128	7607	"
SS-4	" "	"	-30	-8	Y61	Y30	"
IA-2	" "	AI	-30	-8	23993	7417	"
OA-1	" "	AO	-30	-8	23800	5705	"

Comments: * canister gauge didnt move much - ran for 5hrs -

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___

Routine Survey ___ Other ___

Sampling Media

- 6 Liter Canister X
- Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
T-Y ACT	8/3/20 9:50AM	K Barkmyork	8/3/20 9:50AM	K Barkmyork	8/3/20 1615
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
TC Yale / YORK	8/3/20 1615	TC Yale / YORK	8/3/20 1955	Ed/SR	8/4/20 855
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
Ed/SR	8/4/20 2150	Lab ~~2000~~	8/4/20 2200		8/6/20 11:47 pm

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	20H0017
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Matrix:	Air		
Batch:	BH00312	Laboratory ID:	BH00312-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.40	94.0	70 - 130
1,1,1-Trichloroethane	10.0	9.82	98.2	70 - 130
1,1,2,2-Tetrachloroethane	10.0	8.98	89.8	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.2	102	70 - 130
1,1,2-Trichloroethane	10.0	8.44	84.4	70 - 130
1,1-Dichloroethane	10.0	9.83	98.3	70 - 130
1,1-Dichloroethylene	10.0	9.42	94.2	70 - 130
1,2,4-Trichlorobenzene	10.0	9.97	99.7	70 - 130
1,2,4-Trimethylbenzene	10.0	8.49	84.9	70 - 130
1,2-Dibromoethane	10.0	8.54	85.4	70 - 130
1,2-Dichlorobenzene	10.0	10.1	101	70 - 130
1,2-Dichloroethane	10.0	8.86	88.6	70 - 130
1,2-Dichloropropane	10.0	7.81	78.1	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	10.2	102	70 - 130
1,3,5-Trimethylbenzene	10.0	8.97	89.7	70 - 130
1,3-Butadiene	10.0	10.8	108	70 - 130
1,3-Dichlorobenzene	10.0	10.4	104	70 - 130
1,3-Dichloropropane	10.0	7.91	79.1	70 - 130
1,4-Dichlorobenzene	10.0	10.4	104	70 - 130
1,4-Dioxane	10.0	6.53	65.3 *	70 - 130
2-Butanone	10.0	9.16	91.6	70 - 130
2-Hexanone	10.0	7.34	73.4	70 - 130
3-Chloropropene	10.0	10.0	100	70 - 130
4-Methyl-2-pentanone	10.0	6.80	68.0 *	70 - 130
Acetone	10.0	9.23	92.3	70 - 130
Acrylonitrile	10.0	9.82	98.2	70 - 130
Benzene	10.0	9.79	97.9	70 - 130
Benzyl chloride	10.0	9.97	99.7	70 - 130
Bromodichloromethane	10.0	7.86	78.6	70 - 130
Bromoform	10.0	10.6	106	70 - 130

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford

Client: Advanced Cleanup Technologies, Inc.

Calibration: YG00006

SDG: 20H0017

Project: 9628-BXNY

Instrument: 5975C

Calibration Date: 07/07/20 18:12

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	50	0.4403751	30	0.4484318	20	0.4594578	10	0.4855418	3	0.5696907	0.5	0.4747171
1,1,1-Trichloroethane	50	2.519017	30	2.524141	20	2.618182	10	2.708008	3	3.214963	0.5	2.630602
1,1,2,2-Tetrachloroethane	50	0.673399	30	0.6856557	20	0.6991994	10	0.7415378	3	0.8845473	0.5	0.711751
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	50	2.229221	30	2.225928	20	2.321697	10	2.40721	3	2.870833	0.5	2.376132
1,1,2-Trichloroethane	50	0.3073361	30	0.3074599	20	0.3150248	10	0.3261175	3	0.3887162	0.5	0.3145029
1,1-Dichloroethane	50	1.792969	30	1.785278	20	1.845791	10	1.911867	3	2.266373	0.5	1.901432
1,1-Dichloroethylene	50	1.515338	30	1.510799	20	1.559923	10	1.618609	3	1.899324	0.5	1.60033
1,2,4-Trichlorobenzene	50	0.6741326	30	0.6220869	20	0.5808433	10	0.5110483	3	0.3788416	0.5	0.2096018
1,2,4-Trimethylbenzene	50	1.236641	30	1.254616	20	1.269096	10	1.319755	3	1.494853	0.5	1.421568
1,2-Dibromoethane	50	0.4952987	30	0.497466	20	0.5125308	10	0.5279229	3	0.6240122	0.5	0.4963437
1,2-Dichlorobenzene	50	0.7807969	30	0.7842246	20	0.7811683	10	0.8013964	3	0.886021	0.5	0.7791098
1,2-Dichloroethane	50	1.472852	30	1.461965	20	1.510074	10	1.571183	3	1.870714	0.5	1.606795
1,2-Dichloropropane	50	0.2406582	30	0.2419405	20	0.2484046	10	0.2586456	3	0.3068804	0.5	0.25533
1,2-Dichlorotetrafluoroethane	50	2.430066	30	2.417112	20	2.503451	10	2.533954	3	2.879617	0.5	2.571998
1,3,5-Trimethylbenzene	50	1.042181	30	1.04331	20	1.044135	10	1.191951	3	1.32858	0.5	1.216837
1,3-Butadiene	50	0.529137	30	0.5264425	20	0.5460431	10	0.5517226	3	0.6445247	0.5	0.5742489
1,3-Dichlorobenzene	50	0.8193318	30	0.8195923	20	0.8162876	10	0.8412337	3	0.9147794	0.5	0.7773592
1,3-Dichloropropane	50	0.4463119	30	0.4453306	20	0.4593416	10	0.4769744	3	0.5594415	0.5	0.4676074
1,4-Dichlorobenzene	50	0.8191321	30	0.8158773	20	0.8137969	10	0.8310733	3	0.8843848	0.5	0.740609
1,4-Dioxane	50	0.1663113	30	0.1669162	20	0.1716396	10	0.1794077	3	0.2116021	0.5	0.2529028
2-Butanone	50	1.510953	30	1.499307	20	1.534217	10	1.554827	3	1.784202	0.5	1.653068
2-Hexanone	50	0.3892909	30	0.3858952	20	0.3914279	10	0.3957947	3	0.4356438	0.5	0.3680168
3-Chloropropene	50	0.9332497	30	0.9225795	20	0.9534917	10	0.9827301	3	1.134481	0.5	0.9700514
4-Methyl-2-pentanone	50	0.4124722	30	0.4093261	20	0.4175944	10	0.4221668	3	0.4947263	0.5	0.492995
Acetone	50	1.171301	30	1.164144	20	1.194752	10	1.221181	3	1.386964	0.5	4.449306
Acrolein	50	0.2751311	30	0.2696397	20	0.280614	10	0.2847119	3	0.3290155	0.5	0.2914644
Acrylonitrile	50	0.5998574	30	0.5966934	20	0.6093806	10	0.6278191	3	0.7423262	0.5	0.6415329
Benzene	50	3.335312	30	3.329007	20	3.443946	10	3.595121	3	4.343608	0.5	3.700083
Benzyl chloride	50	0.2110004	30	0.2079856	20	0.2025733	10	0.2006647	3	0.1977593	0.5	0.1188346
Bromodichloromethane	50	0.5670133	30	0.5691165	20	0.5851275	10	0.6050796	3	0.7108315	0.5	0.5641998
Bromoform	50	0.6791351	30	0.6857123	20	0.6914707	10	0.7232024	3	0.8268155	0.5	0.6275206

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford

Client: Advanced Cleanup Technologies, Inc.

Calibration: YG00006

SDG: 20H0017

Project: 9628-BXNY

Instrument: 5975C

Calibration Date: 07/07/20 18:12

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromomethane	50	0.9421696	30	0.9374589	20	0.961303	10	0.9766033	3	1.113665	0.5	1.009739
Carbon disulfide	50	2.769778	30	2.762278	20	2.856999	10	2.933426	3	3.434743	0.5	2.84724
Carbon tetrachloride	50	2.790028	30	2.784512	20	2.888584	10	2.98247	3	3.55798	0.5	2.887587
Chlorobenzene	50	0.7732371	30	0.7884924	20	0.8053137	10	0.8498696	3	0.9837685	0.5	0.8706818
Chloroethane	50	0.4650242	30	0.4607666	20	0.4771005	10	0.4853194	3	0.5495173	0.5	0.4933764
Chloroform	50	2.361867	30	2.355067	20	2.449932	10	2.531828	3	3.017948	0.5	2.486516
Chloromethane	50	0.5557616	30	0.5577326	20	0.5716246	10	0.5859443	3	0.6836927	0.5	0.7344974
cis-1,2-Dichloroethylene	50	1.351063	30	1.338536	20	1.389244	10	1.430402	3	1.699638	0.5	1.412067
cis-1,3-Dichloropropylene	50	0.457924	30	0.4581837	20	0.469965	10	0.4809509	3	0.5629795	0.5	0.4377289
Cyclohexane	50	1.356494	30	1.364906	20	1.418725	10	1.479746	3	1.771128	0.5	1.45828
Dibromochloromethane	50	0.6230053	30	0.6209389	20	0.6363368	10	0.6538475	3	0.7546436	0.5	0.5814883
Dichlorodifluoromethane	50	2.254814	30	2.402822	20	2.479072	10	2.637754	3	2.984151	0.5	2.456645
Ethanol	50	0.2510344	30	0.2492424	20	0.2555207	10	0.2679497	3	0.3109831	0.5	1.231346
Ethyl acetate	50	1.670447	30	1.646954	20	1.687181	10	1.719882	3	1.978908	0.5	1.632356
Ethyl Benzene	50	1.227427	30	1.273646	20	1.310957	10	1.385086	3	1.613945	0.5	1.465434
Hexachlorobutadiene	50	0.6546028	30	0.6633086	20	0.6750168	10	0.7033085	3	0.811371	0.5	0.7533861
Isopropanol	50	1.332178	30	1.318993	20	1.362162	10	1.401524	3	1.693545	0.5	4.940947
Isopropylbenzene	50	1.524866	30	1.550144	20	1.576984	10	1.65038	3	1.867188	0.5	1.656328
Methyl Methacrylate	50	0.2454148	30	0.2432515	20	0.2492317	10	0.2535235	3	0.2827617	0.5	0.2353807
Methyl tert-butyl ether (MTBE)	50	2.838307	30	2.84123	20	2.940289	10	3.036436	3	3.521152	0.5	3.025507
Methylene chloride	50	0.8840187	30	0.8822197	20	0.9092157	10	0.9356584	3	1.095488	0.5	1.167115
Naphthalene	50	1.396517	30	1.314499	20	1.229809	10	1.114901	3	0.8762422	0.5	1.100515
n-Butylbenzene	50	2.236237	30	2.299287	20	2.313363	10	2.361067	3	2.480136	0.5	1.801466
n-Heptane	50	1.413516	30	1.412063	20	1.466311	10	1.510924	3	1.774984	0.5	1.572794
n-Hexane	50	1.323331	30	1.33682	20	1.39155	10	1.446078	3	1.723145	0.5	1.432659
n-Propylbenzene	50	1.676272	30	1.713615	20	1.73729	10	1.813027	3	2.025828	0.5	1.814765
o-Xylene	50	1.036905	30	1.052358	20	1.074319	10	1.122768	3	1.272843	0.5	1.210526
p- & m- Xylenes	100	0.9802804	60	1.011487	40	1.037906	20	1.10091	6	1.262949	1	1.171171
p-Ethyltoluene	50	1.502661	30	1.55837	20	1.591674	10	1.681853	3	1.742718	0.5	1.518208
p-Isopropyltoluene	50	1.465324	30	1.491278	20	1.507742	10	1.557098	3	1.783846	0.5	1.523785
Propylene	50	0.3276534	30	0.3200154	20	0.2729133	10	0.3168536	3	0.3545432	0.5	0.3629387

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 20H0017
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YG00006
Instrument: 5975C
Calibration Date: 07/07/20 18:12

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	50	1.730821	30	1.771843	20	1.796869	10	1.877809	3	2.144857	0.5	2.003641
Styrene	50	0.7864807	30	0.7958905	20	0.8025695	10	0.8324377	3	0.9121496	0.5	0.8295408
tert-Butylbenzene	50	1.210534	30	1.225204	20	1.23881	10	1.27891	3	1.463673	0.5	1.4008
Tetrachloroethylene	50	0.5004867	30	0.5002847	20	0.5145126	10	0.5328764	3	0.6240301	0.5	0.5714423
Tetrahydrofuran	50	0.8153016	30	0.8070331	20	0.8266924	10	0.8364987	3	0.9645189	0.5	0.8942671
Toluene	50	0.9416507	30	0.9469824	20	0.9720226	10	1.000377	3	1.163276	0.5	1.076391
trans-1,2-Dichloroethylene	50	1.361186	30	1.362835	20	1.414816	10	1.465575	3	1.741363	0.5	1.411468
trans-1,3-Dichloropropylene	50	0.4299573	30	0.4286999	20	0.4371284	10	0.4476828	3	0.5147422	0.5	0.3901596
Trichloroethylene	50	0.3434816	30	0.3424144	20	0.3517482	10	0.3649586	3	0.4305336	0.5	0.3554917
Trichlorofluoromethane (Freon 11)	50	2.872026	30	2.875758	20	2.978536	10	3.073591	3	3.590498	0.5	3.022873
Vinyl acetate	50	2.082996	30	2.036602	20	2.091108	10	2.14031	3	2.465286	0.5	2.036898
Vinyl bromide	50	1.020309	30	1.014272	20	1.047382	10	1.068416	3	1.216374	0.5	1.070678
Vinyl Chloride	50	0.7704521	30	0.7650928	20	0.7883654	10	0.7954742	3	0.9098342	0.5	0.8552376

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 20H0017
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YG00006
Instrument: 5975C
Calibration Date: 07/07/20 18:12

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	0.2	0.4942459	0.1	0.504017	0.05	~~0.5242484~~	0.025	~~0.5320262~~				
1,1,1-Trichloroethane	0.2	2.64995	0.1	2.665339	0.05	~~2.812333~~	0.025	~~3.283566~~				
1,1,2,2-Tetrachloroethane	0.2	0.7023384	0.1	0.7261838	0.05	~~0.7372113~~	0.025	~~0.9156903~~				
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.2	2.456361	0.1	2.488018	0.05	~~2.55796~~	0.025					
1,1,2-Trichloroethane	0.2	0.3172114	0.1	0.3160495	0.05	~~0.379661~~	0.025	~~0.3287731~~				
1,1-Dichloroethane	0.2	1.963523	0.1	1.867834	0.05	~~2.102136~~	0.025	~~2.429426~~				
1,1-Dichloroethylene	0.2	1.590236	0.1	1.716718	0.05	1.538759	0.025	1.851592				
1,2,4-Trichlorobenzene	0.2	0.1531293	0.1		0.05		0.025					
1,2,4-Trimethylbenzene	0.2	1.541574	0.1	1.799585	0.05	~~2.283958~~	0.025	~~2.866651~~				
1,2-Dibromoethane	0.2	0.4982678	0.1	0.5169821	0.05	~~0.5228567~~	0.025	~~0.6025802~~				
1,2-Dichlorobenzene	0.2	0.8081099	0.1	0.8750806	0.05	~~0.9406324~~	0.025	~~0.6907735~~				
1,2-Dichloroethane	0.2	1.658657	0.1	1.60986	0.05	~~1.827846~~	0.025	~~1.965095~~				
1,2-Dichloropropane	0.2	0.2487471	0.1	0.2845965	0.05	~~0.1964749~~	0.025	~~0.32954~~				
1,2-Dichlorotetrafluoroethane	0.2	2.615813	0.1	2.64059	0.05	~~2.796399~~	0.025	~~2.811209~~				
1,3,5-Trimethylbenzene	0.2	1.273272	0.1	1.530143	0.05	~~1.558087~~	0.025	~~1.894583~~				
1,3-Butadiene	0.2	0.6072186	0.1	0.655416	0.05	~~0.7062131~~	0.025					
1,3-Dichlorobenzene	0.2	0.773463	0.1	0.8075641	0.05	~~0.8723183~~	0.025	~~0.6783111~~				
1,3-Dichloropropane	0.2	0.4726098	0.1	0.4648346	0.05	~~0.5023647~~	0.025	~~0.5067094~~				
1,4-Dichlorobenzene	0.2	0.7352247	0.1	0.7918287	0.05	~~0.8680314~~	0.025					
1,4-Dioxane	0.2	0.3019326	0.1	0.338073	0.05	~~0.4695774~~	0.025	~~0.3499925~~				
2-Butanone	0.2	1.802445	0.1	1.961589	0.05	~~2.333178~~	0.025	~~2.521146~~				
2-Hexanone	0.2	0.3987625	0.1	0.4307235	0.05	~~0.4466016~~	0.025	~~0.4775646~~				
3-Chloropropene	0.2	0.9803574	0.1	1.078481	0.05	~~0.6703618~~	0.025	~~1.059363~~				
4-Methyl-2-pentanone	0.2	0.5447165	0.1	0.6286817	0.05	~~0.7137428~~	0.025	~~0.6601027~~				
Acetone	0.2	6.520248	0.1	10.42493	0.05	~~17.79532~~	0.025	~~23.31859~~				
Acrolein	0.2	0.2818121	0.1	0.2524414	0.05		0.025					
Acrylonitrile	0.2	0.6274642	0.1	0.7086995	0.05	~~0.6521516~~	0.025					
Benzene	0.2	4.052804	0.1	4.377981	0.05	~~4.099564~~	0.025	~~3.637833~~				
Benzyl chloride	0.2	9.637039E-02	0.1	9.087695E-02	0.05		0.025					
Bromodichloromethane	0.2	0.5589315	0.1	0.5766607	0.05	~~0.582594~~	0.025	~~0.6634262~~				
Bromoform	0.2	0.6296293	0.1	0.5973895	0.05	~~0.6214646~~	0.025	~~0.6771242~~				

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 20H0017
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YG00006
Instrument: 5975C
Calibration Date: 07/07/20 18:12

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromomethane	0.2	1.004445	0.1	1.069164	0.05	~~1.047085~~	0.025					
Carbon disulfide	0.2	2.882257	0.1	2.873523	0.05	~~3.145237~~	0.025	~~3.171209~~				
Carbon tetrachloride	0.2	2.838367	0.1	2.906134	0.05	2.961998	0.025	3.360381				
Chlorobenzene	0.2	0.8926144	0.1	0.9544506	0.05	~~1.070623~~	0.025	~~1.186303~~				
Chloroethane	0.2	0.4227921	0.1	0.1688766	0.05	~~0.3118491~~	0.025					
Chloroform	0.2	2.519462	0.1	2.596915	0.05	~~2.616574~~	0.025	~~2.812356~~				
Chloromethane	0.2	0.6985453	0.1	0.4577139	0.05	~~0.6567042~~	0.025					
cis-1,2-Dichloroethylene	0.2	1.396943	0.1	1.380421	0.05	1.428929	0.025	1.498471				
cis-1,3-Dichloropropylene	0.2	0.4585559	0.1	0.4618601	0.05	~~0.4848533~~	0.025					
Cyclohexane	0.2	1.462556	0.1	1.473303	0.05	~~1.645744~~	0.025					
Dibromochloromethane	0.2	0.5654749	0.1	0.5799515	0.05	0.614636	0.025	~~0.7112338~~				
Dichlorodifluoromethane	0.2	2.746301	0.1	3.063073	0.05	~~3.414976~~	0.025	~~3.877451~~				
Ethanol	0.2	1.632057	0.1	~~2.264402~~	0.05	~~3.260758~~	0.025	~~4.677705~~				
Ethyl acetate	0.2	1.747472	0.1	1.892583	0.05	~~1.888736~~	0.025					
Ethyl Benzene	0.2	1.633473	0.1	1.914793	0.05	~~2.435107~~	0.025	~~3.33043~~				
Hexachlorobutadiene	0.2	0.8569113	0.1	0.9357345	0.05	~~0.982257~~	0.025					
Isopropanol	0.2	6.122283	0.1	8.010574	0.05	~~11.0752~~	0.025	~~13.73273~~				
Isopropylbenzene	0.2	1.702203	0.1	1.774145	0.05	~~1.991342~~	0.025	~~2.104367~~				
Methyl Methacrylate	0.2	0.238948	0.1	0.2373852	0.05	~~0.2389492~~	0.025	~~0.2518207~~				
Methyl tert-butyl ether (MTBE)	0.2	3.182541	0.1	3.358315	0.05	~~3.785439~~	0.025					
Methylene chloride	0.2		0.1		0.05		0.025					
Naphthalene	0.2	0.8913117	0.1	0.7299963	0.05	~~0.4892616~~	0.025					
n-Butylbenzene	0.2	1.657169	0.1	1.608474	0.05	~~1.531121~~	0.025					
n-Heptane	0.2	1.608265	0.1	1.64218	0.05	~~1.745331~~	0.025	~~1.895159~~				
n-Hexane	0.2	1.479994	0.1	1.444769	0.05	~~1.769232~~	0.025	~~1.650955~~				
n-Propylbenzene	0.2	1.835896	0.1	2.063967	0.05	~~2.30802~~	0.025	~~2.237299~~				
o-Xylene	0.2	1.36841	0.1	1.693597	0.05	~~2.209698~~	0.025	~~3.062192~~				
p- & m- Xylenes	0.4	1.267674	0.2	1.492884	0.1	~~1.873313~~	0.05	~~2.569778~~				
p-Ethyltoluene	0.2	1.655409	0.1	1.436216	0.05	~~2.021489~~	0.025	~~1.601123~~				
p-Isopropyltoluene	0.2	1.602101	0.1	1.605909	0.05	~~1.616306~~	0.025	~~1.730494~~				
Propylene	0.2	0.3701832	0.1	0.2268188	0.05		0.025					

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 20H0017
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YG00006
Instrument: 5975C
Calibration Date: 07/07/20 18:12

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	0.2	2.033215	0.1	2.43517	0.05	~~2.73284~~	0.025	~~2.715025~~				
Styrene	0.2	0.8542001	0.1	0.9454392	0.05	~~1.155117~~	0.025	~~1.195501~~				
tert-Butylbenzene	0.2	1.546398	0.1	1.76756	0.05	~~2.192412~~	0.025	~~2.013866~~				
Tetrachloroethylene	0.2	0.6844493	0.1		0.05		0.025					
Tetrahydrofuran	0.2	0.9806529	0.1	1.054023	0.05	~~1.230894~~	0.025	~~1.031847~~				
Toluene	0.2	1.122182	0.1	1.24382	0.05	~~1.545842~~	0.025	~~1.71008~~				
trans-1,2-Dichloroethylene	0.2	1.408322	0.1	1.412158	0.05	~~1.431774~~	0.025	~~1.568407~~				
trans-1,3-Dichloropropylene	0.2	0.3966995	0.1	0.3988274	0.05	~~0.421887~~	0.025					
Trichloroethylene	0.2	0.3649816	0.1	0.3809808	0.05	0.4071079	0.025	0.4220874				
Trichlorofluoromethane (Freon 11)	0.2	3.093431	0.1	3.180121	0.05	~~3.14353~~	0.025					
Vinyl acetate	0.2	1.99426	0.1	2.088829	0.05	~~2.302448~~	0.025	~~2.282674~~				
Vinyl bromide	0.2	1.081585	0.1	1.034515	0.05	~~1.024322~~	0.025					
Vinyl Chloride	0.2	0.9249407	0.1	1.056644	0.05	0.7500313	0.025	1.304713				

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 20H0017
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YG00006
Instrument: 5975C
Calibration Date: 07/07/20 18:12

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.4845596	8.439021	21.46412	2.058193E-02			30	
1,1,1-Trichloroethane	2.691275	8.231552	14.797	0.037001			30	
1,1,2,2-Tetrachloroethane	0.7280765	9.172541	23.54813	1.433489E-02			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2.421925	8.475933	10.08775	7.314307E-02			30	
1,1,2-Trichloroethane	0.3240523	8.267195	19.2945	1.513009E-02			30	
1,1-Dichloroethane	1.916883	8.002475	12.78125	4.068081E-02			30	
1,1-Dichloroethylene	1.640163	8.411662	10.5504	6.741569E-02			30	
1,2,4-Trichlorobenzene	0.4470977	45.80345	29.44514	1.774311E-02		0.9995111	0.99	
1,2,4-Trimethylbenzene	1.417211	13.55176	24.96	2.283221E-02			30	
1,2-Dibromoethane	0.521103	8.297284	20.726	1.512118E-02			30	
1,2-Dichlorobenzene	0.8119884	5.380939	26.58737	1.349903E-02			30	
1,2-Dichloroethane	1.595262	8.235736	15.504	2.058922E-02			30	
1,2-Dichloropropane	0.2606504	8.920483	16.847	2.381619E-02			30	
1,2-Dichlorotetrafluoroethane	2.574075	5.715264	6.625	6.899894E-02			30	
1,3,5-Trimethylbenzene	1.208801	14.13553	24.2055	1.851181E-02			30	
1,3-Butadiene	0.5793442	8.760071	7.411125	0.1004589			30	
1,3-Dichlorobenzene	0.8212014	5.362632	25.7715	1.919791E-02			30	
1,3-Dichloropropane	0.4740565	7.663741	19.72825	3.026514E-02			30	
1,4-Dichlorobenzene	0.8039908	6.049164	25.94175	1.146918E-02			30	
1,4-Dioxane	0.2235982	29.94899	17.28363	9.965244E-02			30	
2-Butanone	1.662576	10.20708	13.4755	6.629676E-02			30	
2-Hexanone	0.3994444	5.709738	19.137	4.127823E-02			30	
3-Chloropropene	0.9944277	7.427633	11.2475	4.823764E-02			30	
4-Methyl-2-pentanone	0.4778349	16.48546	17.64325	0.0489066			30	
Acetone	3.441603	100.5348	10.32237	0.143961		0.9998204	0.99	
Acrolein	0.2831038	7.75408	10.20112	0.1321792			30	
Acrylonitrile	0.6442217	8.25142	11.7275	0.1037619			30	
Benzene	3.772233	11.44092	15.57025	2.077412E-02			30	
Benzyl chloride	0.1657582	32.28868	26.124	5.672156E-03		0.9999681	0.99	
Bromodichloromethane	0.5921201	8.46562	17.29138	1.369796E-02			30	
Bromoform	0.6826094	10.45426	23.46525	1.197565E-02			30	
Bromomethane	1.001818	6.209899	8.52475	4.318016E-02			30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	20H0017
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Instrument ID:	5975C	Calibration:	YG00006
Lab File ID:	TO285076.D	Calibration Date:	07/07/20 18:12
Sequence:	Y0H1018	Injection Date:	08/07/20
Lab Sample ID:	Y0H1018-CCV1	Injection Time:	19:52

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	9.52	0.4845596	0.4615311		-4.8	30	
1,1,1-Trichloroethane	A	10.0	9.97	2.691275	2.683159		-0.3	30	
1,1,2,2-Tetrachloroethane	A	10.0	9.06	0.7280765	0.6599699		-9.4	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.4	2.421925	2.528656		4.4	30	
1,1,2-Trichloroethane	A	10.0	8.63	0.3240523	0.279614		-13.7	30	
1,1-Dichloroethane	A	10.0	9.99	1.916883	1.914678		-0.1	30	
1,1-Dichloroethylene	A	10.0	9.59	1.640163	1.572985		-4.1	30	
1,2,4-Trichlorobenzene	A	10.0	9.93	0.4470977	0.5425508		-0.7	30	
1,2,4-Trimethylbenzene	A	10.0	8.48	1.417211	1.20148		-15.2	30	
1,2-Dibromoethane	A	10.0	8.77	0.521103	0.4570431		-12.3	30	
1,2-Dichlorobenzene	A	10.0	10.0	0.8119884	0.8115886		-0.05	30	
1,2-Dichloroethane	A	10.0	9.18	1.595262	1.465028		-8.2	30	
1,2-Dichloropropane	A	10.0	8.08	0.2606504	0.2106568		-19.2	30	
1,2-Dichlorotetrafluoroethane	A	10.0	10.4	2.574075	2.675763		4.0	30	
1,3,5-Trimethylbenzene	A	10.0	8.84	1.208801	1.068667		-11.6	30	
1,3-Butadiene	A	10.0	10.8	0.5793442	0.6270798		8.2	30	
1,3-Dichlorobenzene	A	10.0	10.4	0.8212014	0.8532355		3.9	30	
1,3-Dichloropropane	A	10.0	8.03	0.4740565	0.3806521		-19.7	30	
1,4-Dichlorobenzene	A	10.0	10.4	0.8039908	0.835535		3.9	30	
1,4-Dioxane	A	10.0	6.71	0.2235982	0.1499355		-32.9	30	*
2-Butanone	A	10.0	9.40	1.662576	1.562618		-6.0	30	
2-Hexanone	A	10.0	7.51	0.3994444	0.2998667		-24.9	30	
3-Chloropropene	A	10.0	10.2	0.9944277	1.013555		1.9	30	
4-Methyl-2-pentanone	A	10.0	6.89	0.4778349	0.3292578		-31.1	30	*
Acetone	Q	10.0	9.46	3.441603	1.168801		-5.4	30	
Acrylonitrile	A	10.0	10.0	0.6442217	0.6460466		0.3	30	
Benzene	A	10.0	10.0	3.772233	3.779549		0.2	30	
Benzyl chloride	Q	10.0	9.95	0.1657582	0.2000806		-0.5	30	
Bromodichloromethane	A	10.0	8.02	0.5921201	0.4751251		-19.8	30	

ATTACHMENT D

ANNOTATED SUMMARY FORMS

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 20H0017-01 File ID: TO285082.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 00:43

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	45.4	31	UJ
71-55-6	1,1,1-Trichloroethane	45.4	25	UJ
79-34-5	1,1,2,2-Tetrachloroethane	45.4	31	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45.4	35	UJ
79-00-5	1,1,2-Trichloroethane	45.4	25	UJ
75-34-3	1,1-Dichloroethane	45.4	18	UJ
75-35-4	1,1-Dichloroethylene	45.4	4.5	UJ
120-82-1	1,2,4-Trichlorobenzene	45.4	34	UJ
95-63-6	1,2,4-Trimethylbenzene	45.4	22	UJ
106-93-4	1,2-Dibromoethane	45.4	35	UJ
95-50-1	1,2-Dichlorobenzene	45.4	27	UJ
107-06-2	1,2-Dichloroethane	45.4	18	UJ
78-87-5	1,2-Dichloropropane	45.4	21	UJ
76-14-2	1,2-Dichlorotetrafluoroethane	45.4	32	UJ
108-67-8	1,3,5-Trimethylbenzene	45.4	22	UJ
106-99-0	1,3-Butadiene	45.4	30	UJ
541-73-1	1,3-Dichlorobenzene	45.4	27	UJ
142-28-9	1,3-Dichloropropane	45.4	21	UJ
106-46-7	1,4-Dichlorobenzene	45.4	27	UJ
123-91-1	1,4-Dioxane	45.4	33	UJ
78-93-3	2-Butanone	45.4	13	UJ
591-78-6	2-Hexanone	45.4	37	UJ
107-05-1	3-Chloropropene	45.4	71	UJ
108-10-1	4-Methyl-2-pentanone	45.4	19	UJ
67-64-1	Acetone	45.4	620	J
107-13-1	Acrylonitrile	45.4	9.8	UJ
71-43-2	Benzene	45.4	35	J
100-44-7	Benzyl chloride	45.4	23	UJ
75-27-4	Bromodichloromethane	45.4	30	UJ
75-25-2	Bromoform	45.4	47	UJ
74-83-9	Bromomethane	45.4	18	UJ
75-15-0	Carbon disulfide	45.4	69	J
56-23-5	Carbon tetrachloride	45.4	7.1	UJ
108-90-7	Chlorobenzene	45.4	21	UJ
75-00-3	Chloroethane	45.4	12	UJ
67-66-3	Chloroform	45.4	22	UJ
74-87-3	Chloromethane	45.4	9.4	UJ
156-59-2	cis-1,2-Dichloroethylene	45.4	4.5	UJ
10061-01-5	cis-1,3-Dichloropropylene	45.4	21	UJ
110-82-7	Cyclohexane	45.4	7400	J

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 20H0017-01 File ID: TO285082.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 00:43

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	45.4	39	UJ
75-71-8	Dichlorodifluoromethane	45.4	22	UJ
141-78-6	Ethyl acetate	45.4	33	UJ
100-41-4	Ethyl Benzene	45.4	61	J
87-68-3	Hexachlorobutadiene	45.4	48	UJ
67-63-0	Isopropanol	45.4	22	UJ
80-62-6	Methyl Methacrylate	45.4	19	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	45.4	16	UJ
75-09-2	Methylene chloride	45.4	32	UJ
142-82-5	n-Heptane	45.4	19	UJ
110-54-3	n-Hexane	45.4	1300	J
95-47-6	o-Xylene	45.4	20	UJ
179601-23-1	p- & m- Xylenes	45.4	39	UJ
622-96-8	p-Ethyltoluene	45.4	27	J
115-07-1	Propylene	45.4	370	J
100-42-5	Styrene	45.4	19	UJ
127-18-4	Tetrachloroethylene	45.4	130	J
109-99-9	Tetrahydrofuran	45.4	27	UJ
108-88-3	Toluene	45.4	56	J
156-60-5	trans-1,2-Dichloroethylene	45.4	31	J
10061-02-6	trans-1,3-Dichloropropylene	45.4	21	UJ
79-01-6	Trichloroethylene	45.4	6.1	UJ
75-69-4	Trichlorofluoromethane (Freon 11)	45.4	25	UJ
108-05-4	Vinyl acetate	45.4	16	UJ
593-60-2	Vinyl bromide	45.4	20	UJ
75-01-4	Vinyl Chloride	45.4	59	J

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ppbv)	Q
460-00-4	SURR: p-Bromofluorobenzene	23.753	13	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	194625	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1099983	15.882	1394980	15.882	
ISTD: d5-Chlorobenzene	796732	21.363	1235217	21.363	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 20H0017-02 File ID: TO285083.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 01:29

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	21.7	15	UJ
71-55-6	1,1,1-Trichloroethane	21.7	12	UJ
79-34-5	1,1,2,2-Tetrachloroethane	21.7	15	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	21.7	17	UJ
79-00-5	1,1,2-Trichloroethane	21.7	12	UJ
75-34-3	1,1-Dichloroethane	21.7	8.8	UJ
75-35-4	1,1-Dichloroethylene	21.7	2.2	UJ
120-82-1	1,2,4-Trichlorobenzene	21.7	16	UJ
95-63-6	1,2,4-Trimethylbenzene	21.7	11	UJ
106-93-4	1,2-Dibromoethane	21.7	17	UJ
95-50-1	1,2-Dichlorobenzene	21.7	13	UJ
107-06-2	1,2-Dichloroethane	21.7	8.8	UJ
78-87-5	1,2-Dichloropropane	21.7	10	UJ
76-14-2	1,2-Dichlorotetrafluoroethane	21.7	15	UJ
108-67-8	1,3,5-Trimethylbenzene	21.7	11	UJ
106-99-0	1,3-Butadiene	21.7	14	UJ
541-73-1	1,3-Dichlorobenzene	21.7	13	UJ
142-28-9	1,3-Dichloropropane	21.7	10	UJ
106-46-7	1,4-Dichlorobenzene	21.7	13	UJ
123-91-1	1,4-Dioxane	21.7	16	UJ
78-93-3	2-Butanone	21.7	6.4	UJ
591-78-6	2-Hexanone	21.7	18	UJ
107-05-1	3-Chloropropene	21.7	34	UJ
108-10-1	4-Methyl-2-pentanone	21.7	8.9	UJ
67-64-1	Acetone	21.7	200	J
107-13-1	Acrylonitrile	21.7	4.7	UJ
71-43-2	Benzene	21.7	6.9	UJ
100-44-7	Benzyl chloride	21.7	11	UJ
75-27-4	Bromodichloromethane	21.7	15	UJ
75-25-2	Bromoform	21.7	22	UJ
74-83-9	Bromomethane	21.7	8.4	UJ
75-15-0	Carbon disulfide	21.7	22	J
56-23-5	Carbon tetrachloride	21.7	3.4	UJ
108-90-7	Chlorobenzene	21.7	10	UJ
75-00-3	Chloroethane	21.7	5.7	UJ
67-66-3	Chloroform	21.7	23	J
74-87-3	Chloromethane	21.7	4.5	UJ
156-59-2	cis-1,2-Dichloroethylene	21.7	1600	J
10061-01-5	cis-1,3-Dichloropropylene	21.7	9.9	UJ
110-82-7	Cyclohexane	21.7	51	J

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	20H0017
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Soil Vapor	Laboratory ID:	20H0017-02	File ID:	TO285083.D
Sampled:	07/31/20 14:00	Prepared:	08/06/20 09:00	Analyzed:	08/08/20 01:29
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BH00312	Sequence:	Y0H1018	Calibration:	YG00006
Instrument:	5975C				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	21.7	19	UJ
75-71-8	Dichlorodifluoromethane	21.7	11	UJ
141-78-6	Ethyl acetate	21.7	16	UJ
100-41-4	Ethyl Benzene	21.7	9.4	UJ
87-68-3	Hexachlorobutadiene	21.7	23	UJ
67-63-0	Isopropanol	21.7	11	UJ
80-62-6	Methyl Methacrylate	21.7	8.9	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	21.7	7.8	UJ
75-09-2	Methylene chloride	21.7	15	UJ
142-82-5	n-Heptane	21.7	8.9	UJ
110-54-3	n-Hexane	21.7	42	J
95-47-6	o-Xylene	21.7	9.4	UJ
179601-23-1	p- & m- Xylenes	21.7	19	UJ
622-96-8	p-Ethyltoluene	21.7	11	UJ
115-07-1	Propylene	21.7	32	J
100-42-5	Styrene	21.7	9.3	UJ
109-99-9	Tetrahydrofuran	21.7	13	UJ
108-88-3	Toluene	21.7	16	J
156-60-5	trans-1,2-Dichloroethylene	21.7	25	J
10061-02-6	trans-1,3-Dichloropropylene	21.7	9.9	UJ
79-01-6	Trichloroethylene	21.7	1500	J
75-69-4	Trichlorofluoromethane (Freon 11)	21.7	12	UJ
108-05-4	Vinyl acetate	21.7	7.6	UJ
593-60-2	Vinyl bromide	21.7	9.5	UJ
75-01-4	Vinyl Chloride	21.7	2.8	UJ

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ppbv)	Q
460-00-4	SURR: p-Bromofluorobenzene	23.753	10	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	208096	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1176793	15.888	1394980	15.882	
ISTD: d5-Chlorobenzene	926359	21.363	1235217	21.363	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	20H0017
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Soil Vapor	Laboratory ID:	20H0017-02RE1	File ID:	TO285086.D
Sampled:	07/31/20 14:00	Prepared:	08/06/20 09:00	Analyzed:	08/08/20 03:46
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BH00312	Sequence:	Y0H1018	Calibration:	YG00006
Instrument:	5975C				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
127-18-4	Tetrachloroethylene	86.9	9700	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	205694	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1190206	15.888	1394980	15.882	
ISTD: d5-Chlorobenzene	946519	21.357	1235217	21.363	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

IA-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Indoor Ambient Air Laboratory ID: 20H0017-03 File ID: TO285089.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 06:16

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.975	0.67	UJ
71-55-6	1,1,1-Trichloroethane	0.975	0.53	UJ
79-34-5	1,1,2,2-Tetrachloroethane	0.975	0.67	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.975	0.97	J
79-00-5	1,1,2-Trichloroethane	0.975	0.53	UJ
75-34-3	1,1-Dichloroethane	0.975	0.39	UJ
75-35-4	1,1-Dichloroethylene	0.975	0.097	UJ
120-82-1	1,2,4-Trichlorobenzene	0.975	0.72	UJ
95-63-6	1,2,4-Trimethylbenzene	0.975	2.3	J
106-93-4	1,2-Dibromoethane	0.975	0.75	UJ
95-50-1	1,2-Dichlorobenzene	0.975	0.59	UJ
107-06-2	1,2-Dichloroethane	0.975	0.51	J
78-87-5	1,2-Dichloropropane	0.975	0.45	UJ
76-14-2	1,2-Dichlorotetrafluoroethane	0.975	0.68	UJ
108-67-8	1,3,5-Trimethylbenzene	0.975	0.77	J
106-99-0	1,3-Butadiene	0.975	0.65	UJ
541-73-1	1,3-Dichlorobenzene	0.975	0.59	UJ
142-28-9	1,3-Dichloropropane	0.975	0.45	UJ
106-46-7	1,4-Dichlorobenzene	0.975	1.2	J
123-91-1	1,4-Dioxane	0.975	0.70	UJ
78-93-3	2-Butanone	0.975	4.7	J
591-78-6	2-Hexanone	0.975	0.80	UJ
107-05-1	3-Chloropropene	0.975	1.5	UJ
108-10-1	4-Methyl-2-pentanone	0.975	1.6	J
67-64-1	Acetone	0.975	98	J
107-13-1	Acrylonitrile	0.975	0.21	UJ
71-43-2	Benzene	0.975	1.3	J
100-44-7	Benzyl chloride	0.975	0.50	UJ
75-27-4	Bromodichloromethane	0.975	0.65	UJ
75-25-2	Bromoform	0.975	1.0	UJ
74-83-9	Bromomethane	0.975	0.38	UJ
75-15-0	Carbon disulfide	0.975	1.4	J
56-23-5	Carbon tetrachloride	0.975	0.86	J
108-90-7	Chlorobenzene	0.975	0.45	UJ
75-00-3	Chloroethane	0.975	0.26	UJ
67-66-3	Chloroform	0.975	0.57	J
74-87-3	Chloromethane	0.975	2.9	J
156-59-2	cis-1,2-Dichloroethylene	0.975	0.097	UJ
10061-01-5	cis-1,3-Dichloropropylene	0.975	0.44	UJ
110-82-7	Cyclohexane	0.975	0.44	J

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

IA-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Indoor Ambient Air Laboratory ID: 20H0017-03 File ID: TO285089.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 06:16

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	0.975	0.83	UJ
75-71-8	Dichlorodifluoromethane	0.975	2.4	J
141-78-6	Ethyl acetate	0.975	4.1	J
100-41-4	Ethyl Benzene	0.975	2.8	J
87-68-3	Hexachlorobutadiene	0.975	1.0	UJ
67-63-0	Isopropanol	0.975	510	J
80-62-6	Methyl Methacrylate	0.975	0.60	J
1634-04-4	Methyl tert-butyl ether (MTBE)	0.975	0.35	UJ
75-09-2	Methylene chloride	0.975	1.7	J
142-82-5	n-Heptane	0.975	1.1	J
110-54-3	n-Hexane	0.975	5.8	J
95-47-6	o-Xylene	0.975	3.1	J
179601-23-1	p- & m- Xylenes	0.975	10	J
622-96-8	p-Ethyltoluene	0.975	2.1	J
115-07-1	Propylene	0.975	0.17	UJ
100-42-5	Styrene	0.975	3.4	J
127-18-4	Tetrachloroethylene	0.975	12	J
109-99-9	Tetrahydrofuran	0.975	0.58	UJ
108-88-3	Toluene	0.975	16	J
156-60-5	trans-1,2-Dichloroethylene	0.975	0.39	UJ
10061-02-6	trans-1,3-Dichloropropylene	0.975	0.44	UJ
79-01-6	Trichloroethylene	0.975	0.42	J
75-69-4	Trichlorofluoromethane (Freon 11)	0.975	2.3	J
108-05-4	Vinyl acetate	0.975	0.34	UJ
593-60-2	Vinyl bromide	0.975	0.43	UJ
75-01-4	Vinyl Chloride	0.975	0.12	UJ

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ppbv)	Q
460-00-4	SURR: p-Bromofluorobenzene	23.753	9.8	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	203360	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1109293	15.888	1394980	15.882	
ISTD: d5-Chlorobenzene	919003	21.363	1235217	21.363	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 20H0017-04 File ID: TO285084.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 02:15

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	16.9	14	UJ
75-71-8	Dichlorodifluoromethane	16.9	8.4	UJ
141-78-6	Ethyl acetate	16.9	12	UJ
100-41-4	Ethyl Benzene	16.9	7.3	UJ
87-68-3	Hexachlorobutadiene	16.9	18	UJ
67-63-0	Isopropanol	16.9	8.3	UJ
80-62-6	Methyl Methacrylate	16.9	6.9	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	16.9	6.1	UJ
75-09-2	Methylene chloride	16.9	12	UJ
142-82-5	n-Heptane	16.9	44	J
110-54-3	n-Hexane	16.9	30	J
95-47-6	o-Xylene	16.9	7.3	UJ
179601-23-1	p- & m- Xylenes	16.9	15	UJ
622-96-8	p-Ethyltoluene	16.9	8.3	UJ
115-07-1	Propylene	16.9	21	J
100-42-5	Styrene	16.9	7.2	UJ
109-99-9	Tetrahydrofuran	16.9	10	UJ
108-88-3	Toluene	16.9	11	J
156-60-5	trans-1,2-Dichloroethylene	16.9	6.7	UJ
10061-02-6	trans-1,3-Dichloropropylene	16.9	7.7	UJ
79-01-6	Trichloroethylene	16.9	42	J
75-69-4	Trichlorofluoromethane (Freon 11)	16.9	9.5	UJ
108-05-4	Vinyl acetate	16.9	6.0	UJ
593-60-2	Vinyl bromide	16.9	7.4	UJ
75-01-4	Vinyl Chloride	16.9	2.2	UJ

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ppbv)	Q
460-00-4	SURR: p-Bromofluorobenzene	23.759	9.9	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	200629	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1127288	15.882	1394980	15.882	
ISTD: d5-Chlorobenzene	857998	21.363	1235217	21.363	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	20H0017
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Soil Vapor	Laboratory ID:	20H0017-04RE1	File ID:	TO285087.D
Sampled:	07/31/20 14:00	Prepared:	08/06/20 09:00	Analyzed:	08/08/20 04:32
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BH00312	Sequence:	Y0H1018	Calibration:	YG00006
Instrument:	5975C				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
127-18-4	Tetrachloroethylene	84.5	15000	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	190408	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1075600	15.888	1394980	15.882	
ISTD: d5-Chlorobenzene	790684	21.363	1235217	21.363	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 20H0017-05 File ID: TO285085.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 03:00

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	18.1	12	UJ
71-55-6	1,1,1-Trichloroethane	18.1	9.8	UJ
79-34-5	1,1,2,2-Tetrachloroethane	18.1	12	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	18.1	14	UJ
79-00-5	1,1,2-Trichloroethane	18.1	9.8	UJ
75-34-3	1,1-Dichloroethane	18.1	7.3	UJ
75-35-4	1,1-Dichloroethylene	18.1	1.8	UJ
120-82-1	1,2,4-Trichlorobenzene	18.1	13	UJ
95-63-6	1,2,4-Trimethylbenzene	18.1	8.9	UJ
106-93-4	1,2-Dibromoethane	18.1	14	UJ
95-50-1	1,2-Dichlorobenzene	18.1	11	UJ
107-06-2	1,2-Dichloroethane	18.1	7.3	UJ
78-87-5	1,2-Dichloropropane	18.1	8.3	UJ
76-14-2	1,2-Dichlorotetrafluoroethane	18.1	13	UJ
108-67-8	1,3,5-Trimethylbenzene	18.1	8.9	UJ
106-99-0	1,3-Butadiene	18.1	12	UJ
541-73-1	1,3-Dichlorobenzene	18.1	11	UJ
142-28-9	1,3-Dichloropropane	18.1	8.3	UJ
106-46-7	1,4-Dichlorobenzene	18.1	11	UJ
123-91-1	1,4-Dioxane	18.1	13	UJ
78-93-3	2-Butanone	18.1	11	J
591-78-6	2-Hexanone	18.1	15	UJ
107-05-1	3-Chloropropene	18.1	28	UJ
108-10-1	4-Methyl-2-pentanone	18.1	7.4	UJ
67-64-1	Acetone	18.1	93	J
107-13-1	Acrylonitrile	18.1	3.9	UJ
71-43-2	Benzene	18.1	12	J
100-44-7	Benzyl chloride	18.1	9.3	UJ
75-27-4	Bromodichloromethane	18.1	12	UJ
75-25-2	Bromoform	18.1	19	UJ
74-83-9	Bromomethane	18.1	7.0	UJ
75-15-0	Carbon disulfide	18.1	13	J
56-23-5	Carbon tetrachloride	18.1	2.8	UJ
108-90-7	Chlorobenzene	18.1	8.3	UJ
75-00-3	Chloroethane	18.1	4.8	UJ
67-66-3	Chloroform	18.1	8.8	UJ
74-87-3	Chloromethane	18.1	3.7	UJ
156-59-2	cis-1,2-Dichloroethylene	18.1	5.7	J
10061-01-5	cis-1,3-Dichloropropylene	18.1	8.2	UJ
110-82-7	Cyclohexane	18.1	6.2	UJ

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	20H0017
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Soil Vapor	Laboratory ID:	20H0017-05	File ID:	TO285085.D
Sampled:	07/31/20 14:00	Prepared:	08/06/20 09:00	Analyzed:	08/08/20 03:00
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BH00312	Sequence:	Y0H1018	Calibration:	YG00006
Instrument:	5975C				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	18.1	15	UJ
75-71-8	Dichlorodifluoromethane	18.1	8.9	UJ
141-78-6	Ethyl acetate	18.1	13	UJ
100-41-4	Ethyl Benzene	18.1	7.8	UJ
87-68-3	Hexachlorobutadiene	18.1	19	UJ
67-63-0	Isopropanol	18.1	8.9	UJ
80-62-6	Methyl Methacrylate	18.1	7.4	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	18.1	6.5	UJ
75-09-2	Methylene chloride	18.1	13	UJ
142-82-5	n-Heptane	18.1	21	J
110-54-3	n-Hexane	18.1	15	J
95-47-6	o-Xylene	18.1	7.8	UJ
179601-23-1	p- & m- Xylenes	18.1	16	UJ
622-96-8	p-Ethyltoluene	18.1	8.9	UJ
115-07-1	Propylene	18.1	13	J
100-42-5	Styrene	18.1	7.7	UJ
109-99-9	Tetrahydrofuran	18.1	11	UJ
108-88-3	Toluene	18.1	10	J
156-60-5	trans-1,2-Dichloroethylene	18.1	7.2	UJ
10061-02-6	trans-1,3-Dichloropropylene	18.1	8.2	UJ
79-01-6	Trichloroethylene	18.1	77	J
75-69-4	Trichlorofluoromethane (Freon 11)	18.1	10	UJ
108-05-4	Vinyl acetate	18.1	6.4	UJ
593-60-2	Vinyl bromide	18.1	7.9	UJ
75-01-4	Vinyl Chloride	18.1	2.3	UJ

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ppbv)	Q
460-00-4	SURR: p-Bromofluorobenzene	23.753	9.1	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	211971	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1231577	15.888	1394980	15.882	
ISTD: d5-Chlorobenzene	1001384	21.363	1235217	21.363	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	20H0017
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Soil Vapor	Laboratory ID:	20H0017-05RE1	File ID:	TO285088.D
Sampled:	07/31/20 14:00	Prepared:	08/06/20 09:00	Analyzed:	08/08/20 05:17
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BH00312	Sequence:	Y0H1018	Calibration:	YG00006
Instrument:	5975C				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
127-18-4	Tetrachloroethylene	72.2	6400	J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	215848	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1237454	15.888	1394980	15.882	
ISTD: d5-Chlorobenzene	1033777	21.357	1235217	21.363	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

IA-2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Indoor Ambient Air Laboratory ID: 20H0017-06 File ID: TO285091.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 08:00

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.947	0.65	UJ
71-55-6	1,1,1-Trichloroethane	0.947	0.52	UJ
79-34-5	1,1,2,2-Tetrachloroethane	0.947	0.65	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.947	0.73	UJ
79-00-5	1,1,2-Trichloroethane	0.947	0.52	UJ
75-34-3	1,1-Dichloroethane	0.947	0.38	UJ
75-35-4	1,1-Dichloroethylene	0.947	0.094	UJ
120-82-1	1,2,4-Trichlorobenzene	0.947	0.70	UJ
95-63-6	1,2,4-Trimethylbenzene	0.947	1.2	J
106-93-4	1,2-Dibromoethane	0.947	0.73	UJ
95-50-1	1,2-Dichlorobenzene	0.947	0.57	UJ
107-06-2	1,2-Dichloroethane	0.947	0.38	UJ
78-87-5	1,2-Dichloropropane	0.947	0.44	UJ
76-14-2	1,2-Dichlorotetrafluoroethane	0.947	0.66	UJ
108-67-8	1,3,5-Trimethylbenzene	0.947	0.47	J
106-99-0	1,3-Butadiene	0.947	0.63	UJ
541-73-1	1,3-Dichlorobenzene	0.947	0.57	UJ
142-28-9	1,3-Dichloropropane	0.947	0.44	UJ
106-46-7	1,4-Dichlorobenzene	0.947	0.57	UJ
123-91-1	1,4-Dioxane	0.947	0.68	UJ
78-93-3	2-Butanone	0.947	1.3	J
591-78-6	2-Hexanone	0.947	0.78	UJ
107-05-1	3-Chloropropene	0.947	1.5	UJ
108-10-1	4-Methyl-2-pentanone	0.947	0.39	UJ
67-64-1	Acetone	0.947	10	J
107-13-1	Acrylonitrile	0.947	0.21	UJ
71-43-2	Benzene	0.947	0.48	J
100-44-7	Benzyl chloride	0.947	0.49	UJ
75-27-4	Bromodichloromethane	0.947	0.63	UJ
75-25-2	Bromoform	0.947	0.98	UJ
74-83-9	Bromomethane	0.947	0.37	UJ
75-15-0	Carbon disulfide	0.947	0.29	UJ
56-23-5	Carbon tetrachloride	0.947	0.48	J
108-90-7	Chlorobenzene	0.947	0.44	UJ
75-00-3	Chloroethane	0.947	0.25	UJ
67-66-3	Chloroform	0.947	0.46	UJ
74-87-3	Chloromethane	0.947	1.4	J
156-59-2	cis-1,2-Dichloroethylene	0.947	0.094	UJ
10061-01-5	cis-1,3-Dichloropropylene	0.947	0.43	UJ
110-82-7	Cyclohexane	0.947	0.33	UJ

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

IA-2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Indoor Ambient Air Laboratory ID: 20H0017-06 File ID: TO285091.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 08:00

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	0.947	0.81	UJ
75-71-8	Dichlorodifluoromethane	0.947	1.5	J
141-78-6	Ethyl acetate	0.947	0.68	UJ
100-41-4	Ethyl Benzene	0.947	0.41	UJ
87-68-3	Hexachlorobutadiene	0.947	1.0	UJ
67-63-0	Isopropanol	0.947	2.8	J
80-62-6	Methyl Methacrylate	0.947	0.58	J
1634-04-4	Methyl tert-butyl ether (MTBE)	0.947	0.34	UJ
75-09-2	Methylene chloride	0.947	2.4	J
142-82-5	n-Heptane	0.947	0.47	J
110-54-3	n-Hexane	0.947	0.67	J
95-47-6	o-Xylene	0.947	0.45	J
179601-23-1	p- & m- Xylenes	0.947	1.1	J
622-96-8	p-Ethyltoluene	0.947	1.1	J
115-07-1	Propylene	0.947	0.16	UJ
100-42-5	Styrene	0.947	0.40	UJ
127-18-4	Tetrachloroethylene	0.947	16	D
109-99-9	Tetrahydrofuran	0.947	0.56	UJ
108-88-3	Toluene	0.947	1.4	J
156-60-5	trans-1,2-Dichloroethylene	0.947	0.38	UJ
10061-02-6	trans-1,3-Dichloropropylene	0.947	0.43	UJ
79-01-6	Trichloroethylene	0.947	26	J
75-69-4	Trichlorofluoromethane (Freon 11)	0.947	1.3	J
108-05-4	Vinyl acetate	0.947	0.33	UJ
593-60-2	Vinyl bromide	0.947	0.41	UJ
75-01-4	Vinyl Chloride	0.947	0.12	UJ

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ppbv)	Q
460-00-4	SURR: p-Bromofluorobenzene	23.753	8.8	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	224875	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1310612	15.882	1394980	15.882	
ISTD: d5-Chlorobenzene	1099973	21.363	1235217	21.363	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

OA-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Outdoor Ambient Air Laboratory ID: 20H0017-07 File ID: TO285093.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 09:58

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.936	0.64	UJ
71-55-6	1,1,1-Trichloroethane	0.936	0.51	UJ
79-34-5	1,1,2,2-Tetrachloroethane	0.936	0.64	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.936	0.72	UJ
79-00-5	1,1,2-Trichloroethane	0.936	0.51	UJ
75-34-3	1,1-Dichloroethane	0.936	0.38	UJ
75-35-4	1,1-Dichloroethylene	0.936	0.093	UJ
120-82-1	1,2,4-Trichlorobenzene	0.936	0.69	UJ
95-63-6	1,2,4-Trimethylbenzene	0.936	0.60	J
106-93-4	1,2-Dibromoethane	0.936	0.72	UJ
95-50-1	1,2-Dichlorobenzene	0.936	0.56	UJ
107-06-2	1,2-Dichloroethane	0.936	0.38	UJ
78-87-5	1,2-Dichloropropane	0.936	0.43	UJ
76-14-2	1,2-Dichlorotetrafluoroethane	0.936	0.65	UJ
108-67-8	1,3,5-Trimethylbenzene	0.936	0.46	UJ
106-99-0	1,3-Butadiene	0.936	0.62	UJ
541-73-1	1,3-Dichlorobenzene	0.936	0.56	UJ
142-28-9	1,3-Dichloropropane	0.936	0.43	UJ
106-46-7	1,4-Dichlorobenzene	0.936	0.56	UJ
123-91-1	1,4-Dioxane	0.936	0.67	UJ
78-93-3	2-Butanone	0.936	1.2	J
591-78-6	2-Hexanone	0.936	0.77	UJ
107-05-1	3-Chloropropene	0.936	1.5	UJ
108-10-1	4-Methyl-2-pentanone	0.936	0.38	UJ
67-64-1	Acetone	0.936	8.8	J
107-13-1	Acrylonitrile	0.936	0.20	UJ
71-43-2	Benzene	0.936	0.69	J
100-44-7	Benzyl chloride	0.936	0.48	UJ
75-27-4	Bromodichloromethane	0.936	0.63	UJ
75-25-2	Bromoform	0.936	0.97	UJ
74-83-9	Bromomethane	0.936	0.36	UJ
75-15-0	Carbon disulfide	0.936	0.29	UJ
56-23-5	Carbon tetrachloride	0.936	0.53	J
108-90-7	Chlorobenzene	0.936	0.43	UJ
75-00-3	Chloroethane	0.936	0.25	UJ
67-66-3	Chloroform	0.936	0.73	J
74-87-3	Chloromethane	0.936	1.4	J
156-59-2	cis-1,2-Dichloroethylene	0.936	0.093	UJ
10061-01-5	cis-1,3-Dichloropropylene	0.936	0.42	UJ
110-82-7	Cyclohexane	0.936	0.35	J

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

OA-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 20H0017

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Outdoor Ambient Air Laboratory ID: 20H0017-07 File ID: TO285093.D

Sampled: 07/31/20 14:00 Prepared: 08/06/20 09:00 Analyzed: 08/08/20 09:58

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BH00312 Sequence: Y0H1018 Calibration: YG00006 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	0.936	0.80	UJ
75-71-8	Dichlorodifluoromethane	0.936	1.7	J
141-78-6	Ethyl acetate	0.936	0.67	UJ
100-41-4	Ethyl Benzene	0.936	0.41	J
87-68-3	Hexachlorobutadiene	0.936	1.0	UJ
67-63-0	Isopropanol	0.936	6.4	J
80-62-6	Methyl Methacrylate	0.936	0.38	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	0.936	0.34	UJ
75-09-2	Methylene chloride	0.936	1.3	J
142-82-5	n-Heptane	0.936	0.54	J
110-54-3	n-Hexane	0.936	0.99	J
95-47-6	o-Xylene	0.936	0.49	J
179601-23-1	p- & m- Xylenes	0.936	1.2	J
622-96-8	p-Ethyltoluene	0.936	0.55	J
115-07-1	Propylene	0.936	0.16	UJ
100-42-5	Styrene	0.936	0.40	UJ
127-18-4	Tetrachloroethylene	0.936	0.63	J
109-99-9	Tetrahydrofuran	0.936	0.55	UJ
108-88-3	Toluene	0.936	1.8	J
156-60-5	trans-1,2-Dichloroethylene	0.936	0.37	UJ
10061-02-6	trans-1,3-Dichloropropylene	0.936	0.42	UJ
79-01-6	Trichloroethylene	0.936	0.25	J
75-69-4	Trichlorofluoromethane (Freon 11)	0.936	1.3	J
108-05-4	Vinyl acetate	0.936	0.33	UJ
593-60-2	Vinyl bromide	0.936	0.41	UJ
75-01-4	Vinyl Chloride	0.936	0.12	UJ

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ppbv)	Q
460-00-4	SURR: p-Bromofluorobenzene	23.753	9.1	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	215317	14.462	240947	14.462	
ISTD: 1,4-Difluorobenzene	1232590	15.888	1394980	15.882	
ISTD: d5-Chlorobenzene	1005017	21.363	1235217	21.363	

* Values outside of QC limits

JR 12/8/2025

December 8, 2025

Mr. Jason Stewart
Advanced Cleanup Technologies
228 Park Ave S PMB 34864
New York, New York 10003

Re: Data Usability Summary Report – York Analytical Laboratories, Inc. - 21A0950

Dear Mr. Stewart:

The evaluation of analytical data by York Analytical Laboratories for project 9268-BXNY, which were reported in a single data package under Job No. 21A0950 has been completed. The following samples were reported.

SS-5 SS-6 IA-3

Analysis was performed in accordance with EPA Method TO-15 (volatile organics). The review was performed to the extent possible, in accordance with the analytical method, and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. National Functional Guidelines for Organic Data Review was consulted as needed. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	No -see Documentation section and section A.3
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result. Where a sample result is rejected (R), the 'R' qualifier takes precedence over any other qualification.

- The results for all target analytes in all samples are qualified as estimated (J, UJ) because there is no documentation provided to show samples were properly preserved.

- Based on professional judgment, the non-detect result for 1,2,4-trichlorobenzene in all samples is rejected (R) due to unacceptable RSD in the initial calibration (IC).

- Results for methylene chloride and p-ethyltoluene are qualified as estimated (J-), due to unacceptable calibration.

- Quantitation limits (QLs) for several analytes are adjusted based on unacceptable initial calibration. See Section A.1.

- The results for dichlorodifluoromethane and propylene in IA-3 are qualified as estimated (UJ) due to low response in the continuing calibration verification (CCV) standard.

- The results for dichlorodifluoromethane and isopropanol in IA- 3 are qualified as estimated (J-, UJ) due to low recovery in the laboratory control sample (LCS). The non-detect result for propylene in IA-3 is rejected (R) because the LCS recovery is less than 10%.

- Based on professional judgment, samples results less than ten times the quantitation limit in all samples are qualified as estimated (J) because proper canister certification cannot be confirmed.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C. Annotated Summary

Forms are included in Attachment D detailing qualifications resulting from the data review effort.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
    - Method, instrument blanks
    - Clean canister certification
    - Field blanks
    - Surrogate recoveries
    - LCS recoveries
    - Internal standard area response
    - Duplicates
    - Analyte Identification
- Instrument related quality control data:
    - Instrument tunes
    - Calibration summaries

The following sections of the report detail only quality control exceedances that impacted results. Where a quality control item exceeded control limits but there is no impact to the samples results, these are not detailed in the report.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package, with following exception:

- The data package does not include the clean canister certification data. The laboratory was contacted and was requested to provide the missing documentation. The laboratory stated '*our standard archival period is three years and due to this data being older than that we won't be able to obtain the additional docu*ments.' See Section A.3.

The following documentation issues were observed during the review:

- The data package indicates that the laboratory did not hold certification for ethyl acetate, p-ethyltoluene, propylene, tetrahydrofuran, 1,1,1,2-tetrachloroethane, 1,3-dichloropropane, and 2-hexanone. It is noted that NY ELAP does not offer certification for ethyl acetate, p-ethyltoluene, propylene, tetrahydrofuran and 2-hexanone, but

does offer certification for 1,1,1,2-tetrachloroethane and 1,3-dichloropropane. The laboratory was contacted to request clarification. The laboratory stated '*Given the age of the project, it is difficult to ascertain the exact circumstances in which these compounds were requested. We don't typically report non-certified compounds, except at the request of the client, so it can be safely assumed that there was correspondence regarding the accreditation status of the compounds at the time the samples were taken. Just to note- while these compounds are indeed non-certified under our scope of accreditation between 2020-2022, we ran the compounds in the exact same way we ran our certified compounds – quantitated against a multiple calibration, where they were properly qualified as specified by our certifying body*.'

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of January 22, 2021. The samples were received at the laboratory on the same day on January 25, 2021. The samples were analyzed within method hold time. However, the data package does contain sample receipt information regarding condition of canisters upon receipt. The laboratory was contacted for clarification and stated '*Any anomalous receipt data would be denoted in the case narrative. If there was nothing listed there wasn't any anomalous activity, but we've opened a corrective action to improve this process.'* Since there is no evidence that the samples were properly preserved (pressure inside the canister maintained within +/- 5 psi from sampling to check in the laboratory or analysis), the results for all target analytes in all samples are qualified as estimated (J, UJ).

A. Volatile Organics

1. Calibration

Two initial calibrations (ICs) were performed in support of the sample analysis. For sample IA-3, analyzed on instrument Air2, all relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients are acceptable with the exceptions noted below.

Analyte	**RSD**
Instrument Air2 1/26/2021	
1,2,4-Trichlorobenzene	76
1,3-Dichlorobenzene	34.1
1,4-Dichlorobenzene	44.9
Benzyl chloride	57.6

The laboratory used the average response factor for all analytes in the initial calibration. The method requires an RSD of $\leq$30%, with an allowance of up to two analytes to have an RSD $\leq$40%. A review of the individual calibration levels indicates a lack of instrument sensitivity in the lower calibration standards as presented below.

Analyte	RRF 50	RRF 30	RRF 20	RRF 10	RRF 3	RRF 0.5	RRF 0.2	RRF 0.1
1,2,4-Trichlorobenzene	0.936863	0.728804	0.69116	0.514499	0.2059795	**0.009348**	**0.045876**	-
1,3-Dichlorobenzene	1.246324	0.997939	1.078101	1.048843	0.9167642	**0.613606**	**0.498674**	**0.467932**
1,4-Dichlorobenzene	1.250273	0.999835	1.067838	1.01241	0.7902146	**0.467800**	**0.382028**	**0.321293**
Benzyl chloride	1.681651	1.313488	1.339341	1.169678	0.7215757	**0.310940**	**0.223463**	-

The validator calculated the RSD with these standards excluded (**bolded above**), and the RSDs are:

- 1,2,4-Trichlorobenzene – 44.5 RSD
- 1,3-Dichlorobenzene -11.5 RSD
- 1,4-Dichlorobenzene -16.1 RSD
- Benzyl chloride – 27.9 RSD

Based on professional judgment, the non-detect result for 1,2,4-trichlorobenzene in IA-3 is rejected (R) due to unacceptable RSD (>40%RSD) in the IC after the elimination of the standards with excessively low response.

1,3-Dichlorobenzene, 1,4-dichlorobenzene, and benzyl chloride are not detected in IA-3. The quantitation limits (QLs) have been adjusted to reflect the lowest acceptable concentration standard (3ppbv) in the IC as presented below:

Analyte	IA-3 adjusted QL (ppbv)
1,3-Dichlorobenzene	17.3
1,4-Dichlorobenzene	17.3
Benzyl chloride	15.5

For samples SS-5 and SS-6, analyzed on instrument 5975C, all relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients are acceptable with the exceptions noted below.

Analyte	RSD
Instrument 5975C 1/28/2021	
1,2,4-Trichlorobenzene	41.1
1,2,4-Trimethylbenzene	53.1
1,2-Dichlorobenzene	44.6
1,3,5-Trimethylbenzene	44.0

Analyte	RSD
1,3-Dichlorobenzene	49.8
1,4-Dichlorobenzene	54.6
2-Butanone	44.9
Ethyl acetate	44.8
Hexachlorobutadiene	47.8
Isopropanol	30.2
Methyl Methacrylate	54.3
Methylene chloride	71.3
p-Ethyltoluene	48.8
Styrene	35.8
Tetrahydrofuran	37.5
Vinyl acetate	57.8
Vinyl Chloride	32.5

It is noted that the internal standard area responses for 0.1 ppbv and 50 ppbv standards are biased high, outside the 60-140%R control limit as presented below:

Standard	Bromochloromethane %R	1,4-Difluorobenzene %R	Chlorobenzene-d5 %R
Cal Standard (Y1A2808-CALA)	143	160	154
Cal Standard (Y1A2808-CAL3)	148	159	A

A=acceptable

The laboratory used the average response factor for all analytes in the initial calibration. A review of the individual calibration levels is presented below for the analytes with RSD >30.

Analyte	RRF 50	RRF 30	RRF 20	RRF 10	RRF 3	RRF 0.5	RRF 0.2	RRF 0.1
1,2,4-Trichlorobenzene	0.700693	0.677484	0.590836	0.408506	0.1966694	-	-	-
1,2,4-Trimethylbenzene	1.375326	1.458105	1.446346	1.435829	1.542911	**0.273764**	**0.342346**	**0.539647**
1,2-Dichlorobenzene	0.900839	0.959441	0.966115	0.943664	0.911476	**0.245998**	**0.270073**	**0.507492**
1,3,5-Trimethylbenzene	1.322004	1.366753	1.372565	1.360943	1.540981	**0.392061**	**0.464303**	**0.678614**
1,3-Dichlorobenzene	0.909889	0.957549	0.939073	0.903935	0.8244748	**0.223418**	**0.222262**	**0.376262**
1,4-Dichlorobenzene	0.902312	0.937458	0.909971	0.844290	0.7197025	**0.159711**	**0.181004**	**0.334693**
2-Butanone	2.294415	2.268154	2.279497	2.213659	2.426894	**0.80472**	**0.755105**	**0.829266**
Ethyl acetate	2.556619	2.562783	2.534473	2.451693	2.710518	**0.855485**	**0.825364**	**0.999244**

Isopropanol	2.070019	2.067289	2.03248	2.031593	2.140223	**1.009817**	**1.037407**	**1.211657**
Methyl Methacrylate	0.294606	0.332228	0.341239	0.330449	0.3445318	**0.0804109**	**0.077656**	**0.088947**
Methylene chloride	1.250825	1.259062	1.277804	1.296804	1.555752	**2.868581**	**5.248707**	**-**
p-Ethyltoluene	1.61259	1.700738	1.712024	1.702453	1.767332	**0.434838**	**0.477236**	**0.651678**
Styrene	0.838986	0.932732	0.977283	0.969475	0.9446457	**0.369036**	**0.397238**	**0.52576**
Tetrahydrofuran	1.300876	1.284318	1.301304	1.271495	1.408516	**0.527207**	**0.533769**	**0.651464**
Vinyl acetate	3.065108	2.969136	2.840886	2.621604	2.886531	**0.359552**	**0.532220**	**1.034093**
Vinyl Chloride	0.589450	0.620361	0.666787	0.686514	0.7183967	0.780540	0.809031	**1.411269**
							0RRF 0.025	**RRF0.05**
							1.229984	**1.017383**

The method requires a minimum of five (5) standards for the IC, therefore, eliminating the lowest standard is not an option that can be used to achieve RSD≤30. Therefore, based on professional judgment, the non-detect results for 1,2,4-trichlorobenzene in SS-5 and SS-6 are rejected (R) due to unacceptable RSD (>40%RSD) in the IC.

The high RSDs for the remaining analytes are caused by low response factors in the three lowest concentration standards(**bolded above**). The validator calculated the RSD with these three standards excluded, and the RSDs are presented below.

Analyte	**RSD**
1,2,4-Trimethylbenzene	4.1
1,2-Dichlorobenzene	3.1
1,3,5-Trimethylbenzene	6.1
1,3-Dichlorobenzene	5.6
1,4-Dichlorobenzene	10
2-Butanone	3.4
Ethyl acetate	3.6
Isopropanol	2.1
Methyl Methacrylate	6.1
Methylene chloride	9.7
p-Ethyltoluene	3.3
Styrene	5.9

Analyte	RSD
Tetrahydrofuran	4.2
Vinyl acetate	5.8

The table below shows the reported QLs and the adjusted QLs based on elimination of the low standards in the IC for the non-detect analytes in SS-5 and SS-6. These adjusted QLs are reflected in the annotated summary forms in Appendix D.

Sample	Analyte	Reported QL (µg/m3)	Adjust QL (µg/m3)
SS-5	1,2,4-Trimethylbenzene	17 U	341 U
	1,2-Dichlorobenzene	14 U	417 U
	1,3,5-Trimethylbenzene	11 U	341 U
	1,3-Dichlorobenzene	14 U	417 U
	1,4-Dichlorobenzene	14 U	417 U
	2-Butanone	6.8 U	204 U
	Ethyl acetate	17 U	250 U
	Isopropanol	11 U	254 U
	Methyl Methacrylate	9.5 U	240 U
	Methylene chloride	16 U	241 U
	p-Ethyltoluene	11 U	341 U
	Styrene	9.8 U	295 U
	Tetrahydrofuran	14 U	204 U
	Vinyl acetate	8.1 U	244 U
SS-6	1,2-Dichlorobenzene	1.0 U	30.5 U
	1,3,5-Trimethylbenzene	0.83 U	24.9 U
	1,3-Dichlorobenzene	1.0 U	30.5 U
	1,4-Dichlorobenzene	1.0 U	30.5 U
	Ethyl acetate	1.2 U	18.3 U
	Methyl Methacrylate	0.69 U	20.8 U
	Styrene	072 U	21.6 U
	Vinyl acetate	0.59 U	17.8 U

For detected analytes, the recalculated sample concentrations using the updated average relative response factors are presented below:

Sample	Analyte	Reported Conc (on-column ppbv)	Adjusted Conc (on-column ppbv)	%D	Adjust QL (µg/m3)
SS-6	1,2,4-Trimethylbenzene	0.17	0.175	2.9	-
	2-Butanone	3.21	3.14	2.2	-
	Methylene chloride	0.98	1.88	92	17.6

	p-Ethyltoluene	0.17	0.18	5.9	13.1
	Isopropanol	0.40	0.395	1.2	-
	Tetrahydrofuran	0.56	0.55	1.8	-
	Vinyl chloride	0.44	0.43	2.3	-

Where the difference in concentration is less than 5%, no action is taken. Where the difference in concertation exceeds 5% sample results are qualified as estimated (J-), biased low due to unacceptable calibration, as follows:

- Methylene chloride and p-ethyltoluene in SS-6.

For vinyl chloride, the high RSD is caused by high responses in the three lowest calibration standards. The concentration of vinyl chloride in SS-5 is greater than ten times the 0.1 ppbv calibration standard and the high response has no impact on the sample result.

A second source ICV standard was analyzed after the IC, and all percent differences are acceptable ($\leq$30%D). CCVs were analyzed at the appropriate frequency and are acceptable (%D$\leq$30) with the exceptions noted below.

Analyte	**%D**	**Associated Sample**	**Qualifier Applied**
CCV Instrument Air2 01/26/21 07:48			
Dichlorodifluoromethane	-68.5	IA-3	UJ
Propylene	-96.3		

The percent differences represent a decrease in instrument sensitivity. The results for dichlorodifluoromethane and propylene in IA-3 are qualified as estimated (UJ) due to low response in the CCV.

2. Laboratory Control Sample (LCS) /LCS Duplicate (LCSD)

Three LCSs were prepared and analyzed with the sample. All recoveries are acceptable (70-130%R), with the following exceptions:

Analyte	**LCS %R**	**Affected Sample**	**Qualifier Applied**
BA11425-BS1			
Dichlorodifluoromethane	30.4	IA-3	J-
Isopropanol	51.0		
Propylene	5.2		R

The results for dichlorodifluoromethane and isopropanol are qualified as estimated (J-, UJ) due to low recovery in the LCS. The non-detect result for propylene in IA-3 is rejected (R) because the LCS recovery is less than 10%.

3. Compound Quantitation

As noted in **Documentation** section, the laboratory did not provide clean canister certification data. Since clean canister certification data is not available, it cannot be confirmed whether the canisters used for sampling were properly cleaned and free of background contamination. This uncertainty introduces potential impacts to sample results, including the possibility that detected compounds may originate from residual contamination within the canisters rather than the sampled environment. As a result, accuracy cannot be fully assured, and reported concentrations may not reliably represent actual ambient conditions. Based on professional judgment, samples results less than ten times the quantitation limit in all samples are qualified as estimated (J) because proper canister certification cannot be confirmed.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

York Analytical Laboratories, Inc.
120 Research Drive Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21A0450

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Advanced Cleanup Tech	Company: ACT	Company: ACT	9628-BXNY	RUSH - Next Day
Address: 200 Broadhollow Rd St. 207 Melville, NY	Address: same	Address: same	YOUR Project Name	RUSH - Two Day
Phone.: 516-441-5800	Phone.:	Phone.:		RUSH - Three Day
Contact: Jason Stewart	Contact: Paul Stewart	Contact: Karen Freeman		RUSH - Four Day
E-mail: jason@act-earth	E-mail: paul@act-earth	E-mail: karen@act-earth	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Tom Yang
Samples Collected by: (print your name above and sign below)

Air Matrix Codes
AI - Indoor Ambient Air
AO - Outdoor Amb. Air
AE - Vapor Extraction Well/ Process Gas/Effluent
AS - Soil Vapor/Sub-Slab

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliv. | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch X Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SS-5	1/22/21 8:14:30	AS	-30	-12	36995	5705	TO-15
SS-6	" 10:14:30	AS	-29	-8	36985	12011	"
IA-3	" 8:16:00	AI	-29	-10	36983	13573	"

Comments: Canister 23995 (stopped) may have taken in water - tubing filled w/ water (TY)

Detection Limits Required
≤ 1 ug/m³ ___ NYSDEC V1 Limits ___
Routine Survey ___ Other ___

Sampling Media
6 Liter Canister X
Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
T-Tb ACT	1/25/21 10:10AM	[signature]	1/25/21 10:10AM	[signature]	1/25/21 1708
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
TC Hall / YORK	1/25/21 1708	TC Hall / YORK	1/25/21 1830	[signature]	1/26/21 0830
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
[signature]	1/25/21 2030			[signature] / YORK	1/26/21 9:50

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Air

Batch: BA11425 Laboratory ID: BA11425-BS1

Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	9.22	92.2	70 - 130
Carbon disulfide	10.0	10.8	108	70 - 130
Carbon tetrachloride	10.0	11.9	119	70 - 130
Chlorobenzene	10.0	10.2	102	70 - 130
Chloroethane	10.0	9.03	90.3	70 - 130
Chloroform	10.0	10.9	109	70 - 130
Chloromethane	10.0	10.8	108	70 - 130
cis-1,2-Dichloroethylene	10.0	10.3	103	70 - 130
cis-1,3-Dichloropropylene	10.0	10.8	108	70 - 130
Cyclohexane	10.0	10.4	104	70 - 130
Dibromochloromethane	10.0	11.2	112	70 - 130
Dichlorodifluoromethane	10.0	3.04	30.4 *	70 - 130
Ethyl acetate	10.0	10.5	105	70 - 130
Ethyl Benzene	10.0	10.7	107	70 - 130
Hexachlorobutadiene	10.0	11.9	119	70 - 130
Isopropanol	10.0	5.10	51.0 *	70 - 130
Methyl Methacrylate	10.0	10.5	105	70 - 130
Methyl tert-butyl ether (MTBE)	10.0	10.9	109	70 - 130
Methylene chloride	10.0	9.58	95.8	70 - 130
n-Heptane	10.0	10.7	107	70 - 130
n-Hexane	10.0	9.16	91.6	70 - 130
o-Xylene	10.0	10.8	108	70 - 130
p- & m- Xylenes	20.0	21.8	109	70 - 130
p-Ethyltoluene	10.0	11.9	119	70 - 130
Propylene	10.0	0.520	5.20 *	70 - 130
Styrene	10.0	11.5	115	70 - 130
Tetrachloroethylene	10.0	10.8	108	70 - 130
Tetrahydrofuran	10.0	10.3	103	70 - 130
Toluene	10.0	10.3	103	70 - 130
trans-1,2-Dichloroethylene	10.0	10.6	106	70 - 130

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950
Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY
Sequence: Y1A2808 Instrument: 5975C
Calibration: YB10001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (Y1A2808-CAL1)			Lab File ID: TO287788.D			Analyzed: 01/28/21 01:00			
Bromochloromethane	325858	12.304	285825	12.304	114	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1076070	13.852	934692	13.852	115	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	769231	19.095	818110	19.095	94	60 - 140	0.0000	+/-0.33	
Cal Standard (Y1A2808-CAL2)			Lab File ID: TO287789.D			Analyzed: 01/28/21 01:47			
Bromochloromethane	311387	12.304	285825	12.304	109	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1013162	13.852	934692	13.852	108	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	743026	19.095	818110	19.095	91	60 - 140	0.0000	+/-0.33	
Cal Standard (Y1A2808-CAL6)			Lab File ID: TO287793.D			Analyzed: 01/28/21 05:02			
Bromochloromethane	273484	12.304	285825	12.304	96	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	854667	13.852	934692	13.852	91	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	708075	19.095	818110	19.095	87	60 - 140	0.0000	+/-0.33	
Cal Standard (Y1A2808-CAL7)			Lab File ID: TO287794.D			Analyzed: 01/28/21 05:50			
Bromochloromethane	285825	12.304	285825	12.304	100	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	934692	13.852	934692	13.852	100	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	818110	19.095	818110	19.095	100	60 - 140	0.0000	+/-0.33	
Cal Standard (Y1A2808-CAL8)			Lab File ID: TO287795.D			Analyzed: 01/28/21 06:40			
Bromochloromethane	319639	12.304	285825	12.304	112	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1098511	13.852	934692	13.852	118	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	966685	19.095	818110	19.095	118	60 - 140	0.0000	+/-0.33	
Cal Standard (Y1A2808-CAL9)			Lab File ID: TO287796.D			Analyzed: 01/28/21 07:33			
Bromochloromethane	368307	12.304	285825	12.304	129	60 - 140	0.0000	+/-0.33	
ISTD: 1,4-Difluorobenzene	1289667	13.852	934692	13.852	138	60 - 140	0.0000	+/-0.33	
ISTD: d5-Chlorobenzene	1112418	19.095	818110	19.095	136	60 - 140	0.0000	+/-0.33	
Cal Standard (Y1A2808-CALA)			Lab File ID: TO287797.D			Analyzed: 01/28/21 08:30			
Bromochloromethane	409794	12.304	285825	12.304	143	60 - 140	0.0000	+/-0.33	*
ISTD: 1,4-Difluorobenzene	1494630	13.852	934692	13.852	160	60 - 140	0.0000	+/-0.33	*
ISTD: d5-Chlorobenzene	1258981	19.095	818110	19.095	154	60 - 140	0.0000	+/-0.33	*
Cal Standard (Y1A2808-CAL3)			Lab File ID: TO287799.D			Analyzed: 01/28/21 10:10			
Bromochloromethane	421819	12.304	285825	12.304	148	60 - 140	0.0000	+/-0.33	*
ISTD: 1,4-Difluorobenzene	1490759	13.852	934692	13.852	159	60 - 140	0.0000	+/-0.33	*
ISTD: d5-Chlorobenzene	1072923	19.095	818110	19.095	131	60 - 140	0.0000	+/-0.33	
Cal Standard (Y1A2808-CAL4)			Lab File ID: TO287804.D			Analyzed: 01/28/21 14:21			
Bromochloromethane	355116	12.31	285825	12.304	124	60 - 140	0.0060	+/-0.33	
ISTD: 1,4-Difluorobenzene	1174406	13.858	934692	13.852	126	60 - 140	0.0060	+/-0.33	
ISTD: d5-Chlorobenzene	854399	19.095	818110	19.095	104	60 - 140	0.0000	+/-0.33	

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.
SDG: 21A0950
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YA10030
Instrument: TO15_AIR2
Calibration Date: 01/26/21 07:48

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	0.025		0.05		0.1	0.5770163	0.2	0.5752757	0.5	0.5711529	3	0.6159766
1,1,1-Trichloroethane	0.025		0.05		0.1	3.425432	0.2	3.411367	0.5	3.411368	3	3.609574
1,1,2,2-Tetrachloroethane	0.025		0.05		0.1	0.7300414	0.2	0.7318402	0.5	0.7544617	3	0.8690051
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.025		0.05		0.1	3.080905	0.2	3.021607	0.5	2.825011	3	3.008436
1,1,2-Trichloroethane	0.025		0.05		0.1	0.3566161	0.2	0.349048	0.5	0.3485183	3	0.3808134
1,1-Dichloroethane	0.025		0.05		0.1	2.123927	0.2	2.145415	0.5	2.038435	3	2.15819
1,1-Dichloroethylene	0.025	1.68956	0.05	1.949682	0.1	1.877836	0.2	1.809408	0.5	1.774184	3	1.851395
1,2,4-Trichlorobenzene	0.025		0.05		0.1		0.2	4.587566E-02	0.5	8.934861E-02	3	0.2059795
1,2,4-Trimethylbenzene	0.025		0.05		0.1	1.12508	0.2	1.260815	0.5	1.444108	3	1.730441
1,2-Dibromoethane	0.025		0.05		0.1	0.5520995	0.2	0.5474189	0.5	0.5562918	3	0.6228938
1,2-Dichlorobenzene	0.025		0.05		0.1	0.5467859	0.2	0.6057459	0.5	0.7379992	3	1.020486
1,2-Dichloroethane	0.025		0.05		0.1	2.027475	0.2	1.97455	0.5	1.95929	3	2.021334
1,2-Dichloropropane	0.025		0.05		0.1	0.2425652	0.2	0.23658	0.5	0.2333119	3	0.2377875
1,2-Dichlorotetrafluoroethane	0.025		0.05		0.1	2.703432	0.2	2.711149	0.5	2.734652	3	2.868186
1,3,5-Trimethylbenzene	0.025		0.05		0.1	1.378163	0.2	1.431125	0.5	1.536423	3	1.761684
1,3-Butadiene	0.025		0.05		0.1	0.6378528	0.2	0.5007399	0.5	0.503555	3	0.5205629
1,3-Dichlorobenzene	0.025		0.05		0.1	0.4679316	0.2	0.4986744	0.5	0.6136063	3	0.9167642
1,3-Dichloropropane	0.025		0.05		0.1	0.4780494	0.2	0.458046	0.5	0.451178	3	0.5048935
1,4-Dichlorobenzene	0.025		0.05		0.1	0.3212931	0.2	0.3820276	0.5	0.4678002	3	0.7902146
1,4-Dioxane	0.025		0.05		0.1	0.1948808	0.2	0.1933201	0.5	0.1869593	3	0.1931201
2-Butanone	0.025		0.05		0.1	1.80242	0.2	1.687187	0.5	1.689676	3	1.751541
2-Hexanone	0.025		0.05		0.1	0.2555221	0.2	0.281305	0.5	0.3053715	3	0.3554359
3-Chloropropene	0.025		0.05		0.1	0.9799991	0.2	0.9587636	0.5	0.9178889	3	0.9939028
4-Methyl-2-pentanone	0.025		0.05		0.1	0.358424	0.2	0.3446912	0.5	0.359746	3	0.4131591
Acetone	0.025		0.05		0.1	1.969524	0.2	1.87522	0.5	1.74095	3	1.471826
Acrolein	0.025		0.05		0.1	0.3897769	0.2	0.3533793	0.5	0.3748426	3	0.3913719
Acrylonitrile	0.025		0.05		0.1	0.7223971	0.2	0.6266402	0.5	0.6583513	3	0.680862
Benzene	0.025		0.05		0.1	4.427659	0.2	4.203149	0.5	4.077926	3	4.280527
Benzyl chloride	0.025		0.05		0.1		0.2	0.223463	0.5	0.3109399	3	0.7215757
Bromodichloromethane	0.025		0.05		0.1	0.6112342	0.2	0.5771457	0.5	0.5940702	3	0.6458868
Bromoform	0.025		0.05		0.1	0.5140861	0.2	0.541486	0.5	0.5916167	3	0.7717672

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.

Client: Advanced Cleanup Technologies, Inc.

Calibration: YA10030

SDG: 21A0950

Project: 9628-BXNY

Instrument: TO15_AIR2

Calibration Date: 01/26/21 07:48

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromomethane	0.025		0.05		0.1	1.410659	0.2	1.256755	0.5	1.123878	3	1.167802
Carbon disulfide	0.025		0.05		0.1	3.259519	0.2	3.239685	0.5	3.170763	3	3.500906
Carbon tetrachloride	0.025		0.05	3.476406	0.1	3.558004	0.2	3.436302	0.5	3.497501	3	3.818056
Chlorobenzene	0.025		0.05		0.1	1.06513	0.2	1.027989	0.5	1.009538	3	1.07065
Chloroethane	0.025		0.05		0.1	0.5183794	0.2	0.483776	0.5	0.4912851	3	0.4869944
Chloroform	0.025		0.05		0.1	3.176563	0.2	3.141376	0.5	3.057977	3	3.225084
Chloromethane	0.025		0.05		0.1	0.6731788	0.2	0.5730917	0.5	0.4268476	3	0.4988914
cis-1,2-Dichloroethylene	0.025	1.639302	0.05	1.646599	0.1	1.735341	0.2	1.609317	0.5	1.564295	3	1.609182
cis-1,3-Dichloropropylene	0.025		0.05		0.1	0.3929255	0.2	0.4017156	0.5	0.4086907	3	0.4683334
Cyclohexane	0.025		0.05		0.1	1.457893	0.2	1.444583	0.5	1.475399	3	1.528986
Dibromochloromethane	0.025		0.05		0.1	0.6215546	0.2	0.619673	0.5	0.6440579	3	0.7527804
Dichlorodifluoromethane	0.025		0.05		0.1	4.006922	0.2	3.837507	0.5	3.677406	3	3.863792
Ethanol	0.025		0.05		0.1		0.2		0.5		3	
Ethyl acetate	0.025		0.05		0.1	1.875057	0.2	1.927338	0.5	1.836103	3	1.990347
Ethyl Benzene	0.025		0.05		0.1	1.469705	0.2	1.493129	0.5	1.503685	3	1.656591
Hexachlorobutadiene	0.025		0.05		0.1	0.7671693	0.2	0.7998451	0.5	0.8626803	3	0.9640472
Isopropanol	0.025		0.05		0.1	2.060419	0.2	1.815335	0.5	1.716735	3	1.642508
Isopropylbenzene	0.025		0.05		0.1	1.639762	0.2	1.710464	0.5	1.816235	3	2.068458
Methyl Methacrylate	0.025		0.05		0.1	0.2372921	0.2	0.232493	0.5	0.2354746	3	0.2772458
Methyl tert-butyl ether (MTBE)	0.025		0.05		0.1	3.677477	0.2	3.634145	0.5	3.532442	3	3.816353
Methylene chloride	0.025		0.05		0.1	~~2.041367~~	0.2	1.516118	0.5	1.139073	3	1.041112
Naphthalene	0.025		0.05		0.1	0.4697198	0.2	0.4090934	0.5	0.4624087	3	0.8830937
n-Butylbenzene	0.025		0.05		0.1	0.5775272	0.2	0.7249461	0.5	1.036054	3	1.668158
n-Heptane	0.025		0.05		0.1	1.33445	0.2	1.423736	0.5	1.385772	3	1.535934
n-Hexane	0.025		0.05		0.1	2.494255	0.2	1.856212	0.5	1.564945	3	1.486143
n-Propylbenzene	0.025		0.05		0.1	1.590797	0.2	1.702634	0.5	1.86525	3	2.239676
o-Xylene	0.025		0.05		0.1	1.139641	0.2	1.115911	0.5	1.181538	3	1.333251
p- & m- Xylenes	0.05		0.1		0.2	1.161484	0.4	1.140338	1	1.19004	6	1.298488
p-Ethyltoluene	0.025		0.05		0.1	1.165358	0.2	1.348438	0.5	1.532066	3	1.953768
p-Isopropyltoluene	0.025		0.05		0.1	1.431556	0.2	1.588328	0.5	1.83419	3	2.239238
Propylene	0.025		0.05		0.1	0.3731062	0.2	0.4034533	0.5	0.3687482	3	0.3748513

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.
SDG: 21A0950
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YA10030
Instrument: TO15_AIR2
Calibration Date: 01/26/21 07:48

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	0.025		0.05		0.1	1.902468	0.2	1.99823	0.5	2.240514	3	2.639129
Styrene	0.025		0.05		0.1	0.669751	0.2	0.6997102	0.5	0.8053752	3	1.020018
SURR: p-Bromofluorobenzene	10	~~0.5917769~~	10	0.6198109	10	0.6425812	10	0.6638616	10	0.6777516	10	0.7783833
tert-Butylbenzene	0.025		0.05		0.1	1.500702	0.2	1.489469	0.5	1.649558	3	2.002725
Tetrachloroethylene	0.025		0.05		0.1	0.6638151	0.2	0.6452357	0.5	0.6234892	3	0.6486787
Tetrahydrofuran	0.025		0.05		0.1	0.9224455	0.2	0.8300019	0.5	0.8610897	3	0.92248
Toluene	0.025		0.05		0.1	1.084839	0.2	1.041284	0.5	1.047442	3	1.108024
trans-1,2-Dichloroethylene	0.025		0.05		0.1	1.696045	0.2	1.683917	0.5	1.578272	3	1.658149
trans-1,3-Dichloropropylene	0.025		0.05		0.1	0.3699496	0.2	0.3611546	0.5	0.3880453	3	0.4613246
Trichloroethylene	0.025	0.4670628	0.05	0.4286861	0.1	0.4038485	0.2	0.3997878	0.5	0.3831523	3	0.4075425
Trichlorofluoromethane (Freon 11)	0.025		0.05		0.1	4.200223	0.2	4.081745	0.5	3.862837	3	4.114374
Vinyl acetate	0.025		0.05		0.1	2.12869	0.2	2.069793	0.5	2.101735	3	2.381841
Vinyl bromide	0.025		0.05		0.1	1.280072	0.2	1.275967	0.5	1.212855	3	1.305876
Vinyl Chloride	0.025	0.9918589	0.05	0.9575005	0.1	0.7426401	0.2	0.7770665	0.5	0.7553732	3	0.7589363

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.
SDG: 21A0950
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YA10030
Instrument: TO15_AIR2
Calibration Date: 01/26/21 07:48

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	10	0.581416	20	0.5856221	30	0.5335512	50	0.6696643				
1,1,1-Trichloroethane	10	3.378862	20	3.213151	30	2.921064	50	3.163491				
1,1,2,2-Tetrachloroethane	10	0.8528597	20	0.8527992	30	0.7946369	50	1.015743				
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	10	2.815042	20	2.757495	30	2.515044	50	2.728945				
1,1,2-Trichloroethane	10	0.3666615	20	0.3494872	30	0.3129771	50	0.3600748				
1,1-Dichloroethane	10	2.061256	20	2.014063	30	1.854766	50	2.0735				
1,1-Dichloroethylene	10	1.790041	20	1.783326	30	1.645609	50	1.859642				
1,2,4-Trichlorobenzene	10	0.5144995	20	0.691163	30	0.7288036	50	0.9368631				
1,2,4-Trimethylbenzene	10	1.700383	20	1.667875	30	1.529488	50	1.884512				
1,2-Dibromoethane	10	0.6319934	20	0.6180941	30	0.5595337	50	0.6439212				
1,2-Dichlorobenzene	10	1.0758	20	1.069244	30	0.9820023	50	1.207579				
1,2-Dichloroethane	10	1.946935	20	1.875178	30	1.708617	50	1.906216				
1,2-Dichloropropane	10	0.2305082	20	0.2329614	30	0.2130162	50	0.2520294				
1,2-Dichlorotetrafluoroethane	10	2.644649	20	2.454798	30	2.386505	50	2.48684				
1,3,5-Trimethylbenzene	10	1.658946	20	1.608872	30	1.474374	50	1.796116				
1,3-Butadiene	10	0.5233552	20	0.4992007	30	0.4734438	50	0.5454222				
1,3-Dichlorobenzene	10	1.048843	20	1.078101	30	0.9979388	50	1.246324				
1,3-Dichloropropane	10	0.5064076	20	0.5030013	30	0.459745	50	0.5488471				
1,4-Dichlorobenzene	10	1.01241	20	1.067838	30	0.9998353	50	1.250273				
1,4-Dioxane	10	0.1944579	20	0.1995119	30	0.1842576	50	0.2180579				
2-Butanone	10	1.716279	20	1.743002	30	1.634339	50	1.864861				
2-Hexanone	10	0.3990241	20	0.3981502	30	0.3621916	50	0.4278325				
3-Chloropropene	10	0.9852444	20	1.005407	30	0.9502787	50	1.09447				
4-Methyl-2-pentanone	10	0.4159703	20	0.4308976	30	0.4022537	50	0.4904324				
Acetone	10	1.434316	20	1.424185	30	1.317004	50	1.495717				
Acrolein	10	0.3923452	20	0.4141052	30	0.3967547	50	0.4599698				
Acrylonitrile	10	0.6838996	20	0.6999701	30	0.6586198	50	0.7735947				
Benzene	10	4.008125	20	3.790132	30	3.40501	50	3.642948				
Benzyl chloride	10	1.169678	20	1.339341	30	1.313488	50	1.681651				
Bromodichloromethane	10	0.6406829	20	0.6337108	30	0.5783242	50	0.6793282				
Bromoform	10	0.783714	20	0.7755094	30	0.7021665	50	0.8559322				

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Calibration: YA10030 Instrument: TO15_AIR2

Calibration Date: 01/26/21 07:48

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromomethane	10	1.131547	20	1.127421	30	1.050596	50	1.212408				
Carbon disulfide	10	3.436351	20	3.392799	30	3.129129	50	3.495396				
Carbon tetrachloride	10	3.619325	20	3.458393	30	3.115196	50	3.343215				
Chlorobenzene	10	1.028076	20	1.0448	30	0.9613176	50	1.211787				
Chloroethane	10	0.4776877	20	0.4953203	30	0.471101	50	0.565263				
Chloroform	10	3.044963	20	2.952718	30	2.686411	50	2.932302				
Chloromethane	10	0.509697	20	0.4844918	30	0.4579101	50	0.5342357				
cis-1,2-Dichloroethylene	10	1.550769	20	1.543264	30	1.422704	50	1.619167				
cis-1,3-Dichloropropylene	10	0.4765409	20	0.4847052	30	0.4490265	50	0.5417608				
Cyclohexane	10	1.490509	20	1.51525	30	1.426036	50	1.627744				
Dibromochloromethane	10	0.7637413	20	0.7423316	30	0.6669046	50	0.7599561				
Dichlorodifluoromethane	10	3.761168	20	3.365812	30	3.033095	50	3.202049				
Ethanol	10		20		30		50					
Ethyl acetate	10	1.929362	20	1.97392	30	1.843368	50	2.099569				
Ethyl Benzene	10	1.602992	20	1.619929	30	1.473947	50	1.806922				
Hexachlorobutadiene	10	0.8355291	20	0.7289623	30	0.6130552	50	0.636539				
Isopropanol	10	1.611729	20	1.664166	30	1.593262	50	1.788076				
Isopropylbenzene	10	1.955893	20	1.889129	30	1.708118	50	2.03587				
Methyl Methacrylate	10	0.2778188	20	0.2788584	30	0.2549856	50	0.300533				
Methyl tert-butyl ether (MTBE)	10	3.694842	20	3.655046	30	3.390228	50	3.793513				
Methylene chloride	10	0.9746953	20	0.9781346	30	0.9135102	50	1.045886				
Naphthalene	10	1.791586	20	2.11018	30	2.035688	50	2.349137				
n-Butylbenzene	10	1.768842	20	1.74019	30	1.574801	50	1.8739				
n-Heptane	10	1.459586	20	1.417949	30	1.292768	50	1.425655				
n-Hexane	10	1.407688	20	1.436321	30	1.351676	50	1.524392				
n-Propylbenzene	10	2.191714	20	2.155994	30	1.9272	50	2.294275				
o-Xylene	10	1.266019	20	1.253488	30	1.147425	50	1.436615				
p- & m- Xylenes	20	1.225773	40	1.191005	60	1.046835	100	1.204829				
p-Ethyltoluene	10	1.957115	20	1.928308	30	1.750363	50	2.092686				
p-Isopropyltoluene	10	2.128936	20	2.053732	30	1.830759	50	2.145489				
Propylene	10	0.3980964	20	0.3810167	30	0.3578397	50	0.403325				

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Calibration: YA10030 Instrument: TO15_AIR2

Calibration Date: 01/26/21 07:48

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	10	2.435504	20	2.336617	30	2.07754	50	2.422593				
Styrene	10	1.012569	20	1.001453	30	0.9127588	50	1.145732				
SURR: p-Bromofluorobenzene	10	0.8441321	10	0.859791	10	0.8895966	10	0.9002172				
tert-Butylbenzene	10	1.876768	20	1.825633	30	1.664738	50	2.044541				
Tetrachloroethylene	10	0.6266036	20	0.5816288	30	0.5087127	50	0.5592684				
Tetrahydrofuran	10	0.8932596	20	0.9230246	30	0.8710695	50	1.007943				
Toluene	10	1.087116	20	1.073499	30	0.9724611	50	1.111755				
trans-1,2-Dichloroethylene	10	1.598888	20	1.60735	30	1.491012	50	1.695252				
trans-1,3-Dichloropropylene	10	0.4747695	20	0.4745293	30	0.4407643	50	0.5287012				
Trichloroethylene	10	0.397174	20	0.3983018	30	0.3659061	50	0.436585				
Trichlorofluoromethane (Freon 11)	10	3.844997	20	3.623695	30	3.291421	50	3.529087				
Vinyl acetate	10	2.353557	20	2.375869	30	2.220451	50	2.500611				
Vinyl bromide	10	1.262316	20	1.260892	30	1.177163	50	1.30907				
Vinyl Chloride	10	0.7625025	20	0.7263405	30	0.6873932	50	0.7910524				

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.
SDG: 21A0950
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YA10030
Instrument: TO15_AIR2
Calibration Date: 01/26/21 07:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.5887094	6.742072	19.01263	0.0114587			30	
1,1,1-Trichloroethane	3.316789	6.345866	12.57525	7.912986E-02			30	
1,1,2,2-Tetrachloroethane	0.8251734	11.5388	20.8245	0.0100768			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2.844061	6.575865	8.331125	0.2331768			30	
1,1,2-Trichloroethane	0.3530245	5.53558	16.85575	3.204143E-02			30	
1,1-Dichloroethane	2.058694	4.712681	10.5685	0.1102975			30	
1,1-Dichloroethylene	1.803068	4.951396	8.5566	0.2223501			30	
1,2,4-Trichlorobenzene	0.4589333	75.97585	27.02386	2.387444E-03				
1,2,4-Trimethylbenzene	1.542838	16.54976	22.55475	2.475774E-02			30	
1,2-Dibromoethane	0.5915308	6.951902	18.16275	3.389631E-02			30	
1,2-Dichlorobenzene	0.9057053	26.80984	24.28188	5.106048E-03			30	
1,2-Dichloroethane	1.927449	5.316404	13.11138	5.986794E-02			30	
1,2-Dichloropropane	0.234845	4.741041	14.50087	4.866836E-02			30	
1,2-Dichlorotetrafluoroethane	2.623776	6.279934	5.340625	0.500558			30	
1,3,5-Trimethylbenzene	1.580713	9.645799	21.72275	1.746863E-02			30	
1,3-Butadiene	0.5255166	9.526717	5.90475	0.4518011			30	
1,3-Dichlorobenzene	0.8585229	34.09283	23.38837	1.731669E-02				
1,3-Dichloropropane	0.488771	6.784468	17.2825	1.875635E-02			30	
1,4-Dichlorobenzene	0.7864615	44.88766	23.5785	1.775437E-02				
1,4-Dioxane	0.1955707	5.243547	14.823	3.216074E-02			30	
2-Butanone	1.736163	4.162562	11.1825	8.345571E-02			30	
2-Hexanone	0.3481041	17.69719	16.86312	2.105124E-02			30	
3-Chloropropene	0.9857443	5.271001	9.155125	0.1877687			30	
4-Methyl-2-pentanone	0.4019468	11.87344	15.40063	2.243193E-02			30	
Acetone	1.591093	14.9728	8.19325	0.2336922			30	
Acrolein	0.3965682	7.83366	8.08125	0.2306581			30	
Acrylonitrile	0.6880419	6.552496	9.392	0.1400769			30	
Benzene	3.979434	8.659068	13.23963	5.189978E-02			30	
Benzyl chloride	0.9657338	57.55983	23.72957	1.971246E-02				
Bromodichloromethane	0.6200479	5.823982	14.86175	4.033456E-02			30	
Bromoform	0.6920348	18.36848	20.57175	2.173355E-02			30	
Bromomethane	1.185133	9.303023	6.70075	0.4422791			30	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Calibration: YA10030 Instrument: TO15_AIR2

Calibration Date: 01/26/21 07:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Carbon disulfide	3.328068	4.407572	9.435125	0.172099			30	
Carbon tetrachloride	3.480266	5.51077	13.03944	7.550187E-02			30	
Chlorobenzene	1.052411	6.934101	18.96012	1.199453E-02			30	
Chloroethane	0.4987259	6.085233	6.879	0.3616734			30	
Chloroform	3.027174	5.6732	11.83712	9.981308E-02			30	
Chloromethane	0.519793	14.69297	5.554875	0.482107			30	
cis-1,2-Dichloroethylene	1.593994	5.146297	11.5603	9.577007E-02			30	
cis-1,3-Dichloropropylene	0.4529623	11.16112	15.7495	3.843104E-02			30	
Cyclohexane	1.4958	4.247787	12.74425	5.676724E-02			30	
Dibromochloromethane	0.696375	9.236684	17.79038	5.579376E-03			30	
Dichlorodifluoromethane	3.593469	9.741577	5.071625	0.6085702			30	
Ethanol							30	
Ethyl acetate	1.934383	4.520225	11.48312	8.049565E-02			30	
Ethyl Benzene	1.578363	7.429017	19.06987	8.385096E-03			30	
Hexachlorobutadiene	0.7759784	15.03483	27.29825	1.757873E-02			30	
Isopropanol	1.736529	8.823526	7.982625	0.211466		0.9991326	0.99	
Isopropylbenzene	1.852991	8.651179	20.64937	1.930163E-02			30	
Methyl Methacrylate	0.2618377	9.667602	14.51288	3.784646E-02			30	
Methyl tert-butyl ether (MTBE)	3.649256	3.771654	9.717125	0.1303953			30	
Methylene chloride	1.086933	18.59915	9.301857	0.1767361			30	
Naphthalene	1.313863	63.65916	27.41525	0.0130803				
n-Butylbenzene	1.370552	37.37237	24.021	1.602341E-02				
n-Heptane	1.409481	5.28559	13.25725	6.229228E-02			30	
n-Hexane	1.640204	23.01786	10.1955	0.1550243			30	
n-Propylbenzene	1.995942	13.17873	21.41425	1.388813E-02			30	
o-Xylene	1.234236	8.949367	19.99587	1.820239E-02			30	
p- & m- Xylenes	1.182349	6.113822	19.21362	2.252799E-02			30	
p-Ethyltoluene	1.716013	19.38963	21.63662	1.104796E-02			30	
p-Isopropyltoluene	1.906529	15.0558	23.22113	1.651333E-02			30	
Propylene	0.3825546	4.486574	4.990625	0.5658637			30	
sec-Butylbenzene	2.256574	11.06959	22.95613	7.907417E-03			30	
Styrene	0.9084209	18.58071	20.01463	2.539488E-02			30	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Calibration: YA10030 Instrument: TO15_AIR2

Calibration Date: 01/26/21 07:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
SURR: p-Bromofluorobenzene	0.7640139	14.86116	21.06	1.653991E-02			30	
tert-Butylbenzene	1.756767	12.15981	22.48463	1.531508E-02			30	
Tetrachloroethylene	0.607179	8.729419	17.59625	2.846063E-02			30	
Tetrahydrofuran	0.9039142	5.967066	12.169	0.1146554			30	
Toluene	1.065802	4.258662	16.40525	3.746255E-02			30	
trans-1,2-Dichloroethylene	1.626111	4.390033	9.90575	0.1555803			30	
trans-1,3-Dichloropropylene	0.4374048	13.52361	16.56075	8.278457E-03			30	
Trichloroethylene	0.4088047	7.0201	14.2715	4.410282E-02			30	
Trichlorofluoromethane (Freon 11)	3.818547	8.30935	7.45575	0.2956324			30	
Vinyl acetate	2.266568	6.968041	10.52075	0.1233509			30	
Vinyl bromide	1.260526	3.580491	7.33225	0.3302443			30	
Vinyl Chloride	0.7950664	12.46941	5.8281	0.4904991			30	

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.
SDG: 21A0950
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YB10001
Instrument: 5975C
Calibration Date: 01/28/21 00:14

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	0.025		0.05		0.1	0.5799111	0.2	0.4966064	0.5	0.48804	3	0.5692947
1,1,1-Trichloroethane	0.025		0.05		0.1	1.909587	0.2	1.581737	0.5	1.501309	3	1.552766
1,1,2,2-Tetrachloroethane	0.025		0.05		0.1	0.7644537	0.2	0.6219577	0.5	0.6096898	3	1.20386
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	0.025		0.05		0.1	2.08478	0.2	1.843482	0.5	1.732745	3	1.705828
1,1,2-Trichloroethane	0.025		0.05		0.1	0.3562615	0.2	0.3067934	0.5	0.2919996	3	0.3922658
1,1-Dichloroethane	0.025		0.05		0.1	1.72491	0.2	1.579061	0.5	1.576933	3	1.669226
1,1-Dichloroethylene	0.025	1.437436	0.05	1.247322	0.1	1.483575	0.2	1.385744	0.5	1.36061	3	1.351523
1,2,4-Trichlorobenzene	0.025		0.05		0.1	~~0.1061586~~	0.2		0.5		3	0.1966694
1,2,4-Trimethylbenzene	0.025		0.05		0.1	0.5396473	0.2	0.3423459	0.5	0.2737645	3	1.542911
1,2-Dibromoethane	0.025		0.05		0.1	0.4788165	0.2	0.3635029	0.5	0.3614262	3	0.5653001
1,2-Dichlorobenzene	0.025		0.05		0.1	0.5074921	0.2	0.2700729	0.5	0.2459977	3	0.911476
1,2-Dichloroethane	0.025		0.05		0.1	1.105213	0.2	1.003193	0.5	1.01617	3	1.067533
1,2-Dichloropropane	0.025		0.05		0.1	0.3576031	0.2	0.3192678	0.5	0.3204705	3	0.374992
1,2-Dichlorotetrafluoroethane	0.025		0.05		0.1	2.380879	0.2	2.548322	0.5	2.654355	3	2.612255
1,3,5-Trimethylbenzene	0.025		0.05		0.1	0.6786135	0.2	0.464303	0.5	0.3920613	3	1.540981
1,3-Butadiene	0.025		0.05		0.1	0.8510759	0.2	0.5537627	0.5	0.5647104	3	0.5644328
1,3-Dichlorobenzene	0.025		0.05		0.1	0.3762618	0.2	0.2222615	0.5	0.2234176	3	0.8244748
1,3-Dichloropropane	0.025		0.05		0.1	0.4501733	0.2	0.3811288	0.5	0.3688517	3	0.5084904
1,4-Dichlorobenzene	0.025		0.05		0.1	0.3346932	0.2	0.1810044	0.5	0.1597112	3	0.7197025
1,4-Dioxane	0.025		0.05		0.1	0.1106819	0.2		0.5		3	0.2035764
2-Butanone	0.025		0.05		0.1	0.8292656	0.2	0.7551053	0.5	0.80472	3	2.426894
2-Hexanone	0.025		0.05		0.1		0.2		0.5		3	0.7738453
3-Chloropropene	0.025		0.05		0.1	1.184394	0.2	1.257476	0.5	1.220157	3	1.343808
4-Methyl-2-pentanone	0.025		0.05		0.1		0.2		0.5		3	0.9476634
Acetone	0.025		0.05		0.1	1.67157	0.2	1.519926	0.5	1.42402	3	1.519894
Acrolein	0.025		0.05		0.1	0.3024994	0.2	0.2861037	0.5	0.2947227	3	0.4555416
Acrylonitrile	0.025		0.05		0.1	0.7986838	0.2	0.659362	0.5	0.7195354	3	0.8872426
Benzene	0.025		0.05		0.1	3.561954	0.2	2.957062	0.5	2.680632	3	2.88207
Benzyl chloride	0.025		0.05		0.1		0.2		0.5		3	0.2154009
Bromodichloromethane	0.025		0.05		0.1	0.5615931	0.2	0.5204759	0.5	0.519151	3	0.6031199
Bromoform	0.025		0.05		0.1	0.5713364	0.2	0.4452838	0.5	0.4452373	3	0.7097883

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.

Client: Advanced Cleanup Technologies, Inc.

Calibration: YB10001

SDG: 21A0950

Project: 9628-BXNY

Instrument: 5975C

Calibration Date: 01/28/21 00:14

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromomethane	0.025		0.05		0.1	1.078425	0.2	0.9579968	0.5	0.9288268	3	0.8357954
Carbon disulfide	0.025		0.05		0.1	3.023335	0.2	2.607458	0.5	2.570527	3	2.662203
Carbon tetrachloride	0.025	1.972638	0.05	1.304486	0.1	1.82685	0.2	1.554985	0.5	1.482496	3	1.510631
Chlorobenzene	0.025		0.05		0.1	1.101757	0.2	0.9051977	0.5	0.859643	3	0.9940896
Chloroethane	0.025		0.05		0.1	0.5462058	0.2	0.5057502	0.5	0.4800809	3	0.4352357
Chloroform	0.025		0.05		0.1	1.970987	0.2	1.757313	0.5	1.65817	3	1.75652
Chloromethane	0.025		0.05		0.1	0.8501276	0.2	0.7534158	0.5	0.7278626	3	0.6150147
cis-1,2-Dichloroethylene	0.025	1.261899	0.05	1.070051	0.1	1.32948	0.2	1.205662	0.5	1.222624	3	1.293738
cis-1,3-Dichloropropylene	0.025		0.05		0.1	0.4271649	0.2	0.3668663	0.5	0.3617917	3	0.4708267
Cyclohexane	0.025		0.05		0.1	1.792475	0.2	1.622428	0.5	1.566138	3	1.649286
Dibromochloromethane	0.025		0.05		0.1	0.5503908	0.2	0.453293	0.5	0.4498013	3	0.6147541
Dichlorodifluoromethane	0.025		0.05		0.1	2.909305	0.2	2.578594	0.5	2.316022	3	1.90122
Ethanol	0.025		0.05		0.1	0.3520467	0.2	0.5389788	0.5	0.5374464	3	0.4652192
Ethyl acetate	0.025		0.05		0.1	0.9992437	0.2	0.8253641	0.5	0.8554853	3	2.710518
Ethyl Benzene	0.025		0.05		0.1	1.440085	0.2	1.22039	0.5	1.140402	3	1.581998
Hexachlorobutadiene	0.025		0.05		0.1	0.6043304	0.2	0.1903677	0.5	0.1094953	3	0.7302993
Isopropanol	0.025		0.05		0.1	1.211657	0.2	1.037407	0.5	1.009817	3	2.140223
Isopropylbenzene	0.025		0.05		0.1	1.105671	0.2	0.8222154	0.5	0.7833892	3	1.785809
Methyl Methacrylate	0.025		0.05		0.1	8.894798E-02	0.2	7.765628E-02	0.5	8.041098E-02	3	0.3445318
Methyl tert-butyl ether (MTBE)	0.025		0.05		0.1	1.690535	0.2	1.508803	0.5	1.544241	3	2.165477
Methylene chloride	0.025		0.05		0.1	~~9.393839~~	0.2	5.248707	0.5	2.868581	3	1.555752
Naphthalene	0.025		0.05		0.1		0.2		0.5		3	0.8465911
n-Butylbenzene	0.025		0.05		0.1		0.2		0.5		3	1.786426
n-Heptane	0.025		0.05		0.1	2.002992	0.2	1.927961	0.5	1.935991	3	2.061876
n-Hexane	0.025		0.05		0.1	1.643359	0.2	1.465155	0.5	1.443327	3	1.49971
n-Propylbenzene	0.025		0.05		0.1	1.011443	0.2	0.733381	0.5	0.6768539	3	2.289626
o-Xylene	0.025		0.05		0.1	0.9793806	0.2	0.7941255	0.5	0.7177182	3	1.235213
p- & m- Xylenes	0.05		0.1		0.2	1.025796	0.4	0.8536117	1	0.8286805	6	1.228453
p-Ethyltoluene	0.025		0.05		0.1	0.6516777	0.2	0.4772361	0.5	0.4348378	3	1.767332
p-Isopropyltoluene	0.025		0.05		0.1	0.5345211	0.2	0.3076431	0.5	0.2452381	3	2.077021
Propylene	0.025		0.05		0.1	0.7873045	0.2	0.7199056	0.5	0.6607512	3	0.6174036

FORM VI

INITIAL CALIBRATION DATA

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.
SDG: 21A0950
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YB10001
Instrument: 5975C
Calibration Date: 01/28/21 00:14

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	0.025		0.05		0.1	0.8866433	0.2	0.546466	0.5	0.4269531	3	2.500149
Styrene	0.025		0.05		0.1	0.52576	0.2	0.3972383	0.5	0.3690359	3	0.9446457
SURR: p-Bromofluorobenzene	10	~~0.4013762~~	10	~~0.4263027~~	10	0.4457645	10	0.4495534	10	0.4545208	10	0.566851
tert-Butylbenzene	0.025		0.05		0.1	0.6472971	0.2	0.4442304	0.5	0.3213871	3	1.745234
Tetrachloroethylene	0.025		0.05		0.1	0.4504417	0.2	0.3735505	0.5	0.3781817	3	0.4457019
Tetrahydrofuran	0.025		0.05		0.1	0.6514643	0.2	0.5337692	0.5	0.527207	3	1.408516
Toluene	0.025		0.05		0.1	1.013175	0.2	0.896666	0.5	0.8747099	3	0.9990909
trans-1,2-Dichloroethylene	0.025		0.05		0.1	1.329006	0.2	1.248606	0.5	1.2254	3	1.312228
trans-1,3-Dichloropropylene	0.025		0.05		0.1	0.3085006	0.2	0.251276	0.5	0.2555646	3	0.4111309
Trichloroethylene	0.025	0.5293336	0.05	0.3681543	0.1	0.4097912	0.2	0.3719753	0.5	0.3442282	3	0.3770084
Trichlorofluoromethane (Freon 11)	0.025		0.05		0.1	2.184823	0.2	1.873331	0.5	1.822802	3	1.715396
Vinyl acetate	0.025		0.05		0.1	1.034093	0.2	0.5322205	0.5	0.3595518	3	2.886531
Vinyl bromide	0.025		0.05		0.1	0.9662912	0.2	0.8143817	0.5	0.7799233	3	0.730707
Vinyl Chloride	0.025	1.229984	0.05	1.017383	0.1	1.411269	0.2	0.8090314	0.5	0.7805402	3	0.7183967

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.
SDG: 21A0950
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YB10001
Instrument: 5975C
Calibration Date: 01/28/21 00:14

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
1,1,1,2-Tetrachloroethane	10	0.5452751	20	0.551284	30	0.5552604	50	0.5149272				
1,1,1-Trichloroethane	10	1.565552	20	1.731954	30	1.838435	50	1.968982				
1,1,2,2-Tetrachloroethane	10	1.074549	20	1.046345	30	1.040907	50	0.9499997				
1,1,2-Trichloro-1,2,2-trifluoro ethane (Freon 113)	10	1.722274	20	1.865295	30	1.922386	50	1.894504				
1,1,2-Trichloroethane	10	0.3963627	20	0.390164	30	0.3697174	50	0.3164285				
1,1-Dichloroethane	10	1.600395	20	1.651487	30	1.671907	50	1.717412				
1,1-Dichloroethylene	10	1.333851	20	1.384456	30	1.416557	50	1.449158				
1,2,4-Trichlorobenzene	10	0.4085062	20	0.5908362	30	0.6774839	50	0.7006932				
1,2,4-Trimethylbenzene	10	1.435829	20	1.446346	30	1.458105	50	1.375326				
1,2-Dibromoethane	10	0.5847049	20	0.6051196	30	0.6063129	50	0.5787043				
1,2-Dichlorobenzene	10	0.9436641	20	0.9661151	30	0.9594406	50	0.9008386				
1,2-Dichloroethane	10	1.011332	20	1.055533	30	1.111644	50	1.184971				
1,2-Dichloropropane	10	0.3497633	20	0.3460521	30	0.3309332	50	0.2890553				
1,2-Dichlorotetrafluoroethane	10	2.438996	20	2.276618	30	2.088586	50	1.885481				
1,3,5-Trimethylbenzene	10	1.360943	20	1.372565	30	1.366753	50	1.322004				
1,3-Butadiene	10	0.5347713	20	0.5196894	30	0.4863144	50	0.5135756				
1,3-Dichlorobenzene	10	0.9039347	20	0.9390727	30	0.9575492	50	0.9098892				
1,3-Dichloropropane	10	0.5051632	20	0.5047014	30	0.5061467	50	0.4993227				
1,4-Dichlorobenzene	10	0.8442899	20	0.9099712	30	0.9374576	50	0.9023117				
1,4-Dioxane	10	0.1948845	20	0.1998587	30	0.2013786	50	0.197518				
2-Butanone	10	2.213659	20	2.279497	30	2.268154	50	2.294415				
2-Hexanone	10	0.7902806	20	0.7870759	30	0.7517169	50	0.6703202				
3-Chloropropene	10	1.276337	20	1.29752	30	1.31881	50	1.330082				
4-Methyl-2-pentanone	10	0.8582218	20	0.8216563	30	0.8079306	50	0.7762045				
Acetone	10	1.373515	20	1.416296	30	1.426911	50	1.438425				
Acrolein	10	0.4571573	20	0.4774965	30	0.4755082	50	0.4856225				
Acrylonitrile	10	0.8384256	20	0.8553916	30	0.8512328	50	0.8627862				
Benzene	10	2.841214	20	2.956513	30	2.858826	50	2.563769				
Benzyl chloride	10	0.2800357	20	0.3054501	30	0.3032601	50	0.2824589				
Bromodichloromethane	10	0.5855758	20	0.6022534	30	0.611936	50	0.6026798				
Bromoform	10	0.748161	20	0.7717959	30	0.7947007	50	0.743751				

FORM VI INITIAL CALIBRATION DATA (Continued)

EPA TO-15

Laboratory: York Analytical Laboratories, Inc.
SDG: 21A0950
Client: Advanced Cleanup Technologies, Inc.
Project: 9628-BXNY
Calibration: YB10001
Instrument: 5975C
Calibration Date: 01/28/21 00:14

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
Bromomethane	10	0.8348745	20	0.9242786	30	0.9614923	50	0.994344				
Carbon disulfide	10	2.62618	20	2.760641	30	2.768882	50	2.810557				
Carbon tetrachloride	10	1.554196	20	1.755943	30	1.919068	50	2.066129				
Chlorobenzene	10	0.9576976	20	0.966864	30	0.9688196	50	0.9059595				
Chloroethane	10	0.4384956	20	0.4723188	30	0.4782532	50	0.4838987				
Chloroform	10	1.764125	20	1.873154	30	1.951718	50	2.028737				
Chloromethane	10	0.6082463	20	0.5842623	30	0.5496103	50	0.5839539				
cis-1,2-Dichloroethylene	10	1.221286	20	1.272999	30	1.300095	50	1.352499				
cis-1,3-Dichloropropylene	10	0.4647274	20	0.4777595	30	0.4811049	50	0.4767408				
Cyclohexane	10	1.573725	20	1.64601	30	1.661884	50	1.683584				
Dibromochloromethane	10	0.6381664	20	0.6613106	30	0.6667918	50	0.6371418				
Dichlorodifluoromethane	10	2.067146	20	2.243076	30	2.278772	50	2.286868				
Ethanol	10	0.4360186	20	0.4476957	30	0.4475017	50	0.450724				
Ethyl acetate	10	2.451693	20	2.534473	30	2.562783	50	2.556619				
Ethyl Benzene	10	1.511088	20	1.506664	30	1.491921	50	1.391992				
Hexachlorobutadiene	10	0.795959	20	0.8351738	30	0.7942857	50	0.6905302				
Isopropanol	10	2.031593	20	2.03248	30	2.067289	50	2.070019				
Isopropylbenzene	10	1.681823	20	1.658801	30	1.673885	50	1.548061				
Methyl Methacrylate	10	0.330449	20	0.3412392	30	0.3322276	50	0.2946065				
Methyl tert-butyl ether (MTBE)	10	2.042355	20	2.197956	30	2.292665	50	2.362516				
Methylene chloride	10	1.296804	20	1.277804	30	1.259062	50	1.250825				
Naphthalene	10	1.484326	20	1.83963	30	1.957516	50	1.900501				
n-Butylbenzene	10	1.782706	20	1.807827	30	1.766656	50	1.584042				
n-Heptane	10	1.99422	20	2.058956	30	1.997779	50	1.855054				
n-Hexane	10	1.459078	20	1.505232	30	1.526851	50	1.536265				
n-Propylbenzene	10	2.098989	20	2.115695	30	2.0732	50	1.958271				
o-Xylene	10	1.192228	20	1.205139	30	1.177429	50	1.061583				
p- & m- Xylenes	20	1.171805	40	1.156534	60	1.11119	100	0.9816939				
p-Ethyltoluene	10	1.702453	20	1.712024	30	1.700738	50	1.61259				
p-Isopropyltoluene	10	1.938093	20	1.922974	30	1.870284	50	1.722232				
Propylene	10	0.6159713	20	0.6310291	30	0.6060071	50	0.5997247				

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Calibration: YB10001 Instrument: 5975C

Calibration Date: 01/28/21 00:14

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF	ppbv	RF
sec-Butylbenzene	10	2.258649	20	2.252537	30	2.178913	50	1.99857				
Styrene	10	0.9694748	20	0.9772832	30	0.9327315	50	0.8389865				
SURR: p-Bromofluorobenzene	10	0.5839337	10	0.5798507	10	0.5866482	10	0.6030043				
tert-Butylbenzene	10	1.626732	20	1.624493	30	1.642866	50	1.545519				
Tetrachloroethylene	10	0.4617425	20	0.4694104	30	0.460528	50	0.430886				
Tetrahydrofuran	10	1.271495	20	1.301304	30	1.284318	50	1.300876				
Toluene	10	1.019481	20	1.014892	30	1.000745	50	0.9509457				
trans-1,2-Dichloroethylene	10	1.293001	20	1.340303	30	1.385524	50	1.42023				
trans-1,3-Dichloropropylene	10	0.4088256	20	0.4166435	30	0.4208882	50	0.4252092				
Trichloroethylene	10	0.3658884	20	0.3809611	30	0.3862894	50	0.372664				
Trichlorofluoromethane (Freon 11)	10	1.773389	20	1.989793	30	2.158117	50	2.231661				
Vinyl acetate	10	2.621604	20	2.840886	30	2.969136	50	3.065108				
Vinyl bromide	10	0.7556302	20	0.8536067	30	0.9016156	50	0.9370669				
Vinyl Chloride	10	0.6865145	20	0.6667866	30	0.6203611	50	0.5894503				

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Calibration: YB10001 Instrument: 5975C

Calibration Date: 01/28/21 00:14

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.5375749	6.290038	19.214	1.677045E-02			30	
1,1,1-Trichloroethane	1.70629	10.60869	12.80675	3.099859E-02			30	
1,1,2,2-Tetrachloroethane	0.9139702	24.28896	21.02575	1.287143E-02			30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.846412	6.892223	8.61575	3.125452E-02			30	
1,1,2-Trichloroethane	0.3524991	11.88448	17.0635	2.318274E-02			30	
1,1-Dichloroethane	1.648916	3.538465	10.822	3.205983E-02			30	
1,1-Dichloroethylene	1.385023	4.865253	8.8476	6.763089E-02			30	
1,2,4-Trichlorobenzene	0.5148378	41.12453	27.203	1.480613E-02				
1,2,4-Trimethylbenzene	1.051784	53.11966	22.78	1.048918E-02				
1,2-Dibromoethane	0.5179859	20.07364	18.371	0.01893			30	
1,2-Dichlorobenzene	0.7131371	44.63336	24.4705	9.026326E-03				
1,2-Dichloroethane	1.069449	5.829632	13.33775	3.130091E-02			30	
1,2-Dichloropropane	0.3360172	7.976158	14.7165	2.215717E-02			30	
1,2-Dichlorotetrafluoroethane	2.360687	11.30095	5.649875	5.655805E-02			30	
1,3,5-Trimethylbenzene	1.062278	43.9929	21.93375	2.119118E-02				
1,3-Butadiene	0.5735416	20.11683	6.228625	0.1091135			30	
1,3-Dichlorobenzene	0.6696077	49.76849	23.59475	1.457982E-02				
1,3-Dichloropropane	0.4654973	12.69581	17.48538	2.969265E-02			30	
1,4-Dichlorobenzene	0.6236427	54.56843	23.7785	0.0144024				
1,4-Dioxane	0.1846497	19.69241	15.04	6.478083E-02			30	
2-Butanone	1.733964	44.92374	11.428	0.1635914				
2-Hexanone	0.7546478	6.562211	17.0626	1.673479E-02				
3-Chloropropene	1.278573	4.346528	9.42675	2.769754E-02			30	
4-Methyl-2-pentanone	0.8423353	7.814428	15.6044	2.275779E-02				
Acetone	1.47382	6.419353	8.479625	0.2190116			30	
Acrolein	0.4043315	22.66784	8.366	0.1460145			30	
Acrylonitrile	0.8090825	9.834437	9.66775	0.1280212			30	
Benzene	2.912755	10.13454	13.46875	2.178408E-02			30	
Benzyl chloride	0.2773211	13.16528	23.9242	9.274151E-03				
Bromodichloromethane	0.5758481	6.5773	15.07712	6.614293E-03			30	
Bromoform	0.6537568	22.21779	20.77863	2.105191E-02			30	
Bromomethane	0.9395042	8.551225	7.02475	8.462726E-02			30	

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Calibration: YB10001 Instrument: 5975C

Calibration Date: 01/28/21 00:14

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Carbon disulfide	2.728723	5.37879	9.72275	4.687565E-02			30	
Carbon tetrachloride	1.694742	14.68191	13.2706	4.080666E-02			30	
Chlorobenzene	0.9575035	7.62703	19.1665	2.056071E-02			30	
Chloroethane	0.4800299	7.407192	7.19125	7.785637E-02			30	
Chloroform	1.845091	7.059935	12.078	2.021945E-02			30	
Chloromethane	0.6590617	16.0044	5.8795	0.1033726			30	
cis-1,2-Dichloroethylene	1.253033	6.392572	11.8076	4.132915E-02			30	
cis-1,3-Dichloropropylene	0.4408728	11.38988	15.958	2.476346E-02			30	
Cyclohexane	1.649441	4.298776	12.97475	0.0192325			30	
Dibromochloromethane	0.5839562	15.28362	17.9995	1.987087E-02			30	
Dichlorodifluoromethane	2.322625	13.24178	5.39075	4.249008E-02			30	
Ethanol	0.4594539	12.97662	7.3305	0.2174029			30	
Ethyl acetate	1.937022	44.83897	11.72213	0.1082793				
Ethyl Benzene	1.410567	10.90795	19.266	2.250315E-03			30	
Hexachlorobutadiene	0.5938052	47.83308	27.47587	2.302084E-02				
Isopropanol	1.700061	30.15725	8.253875	0.2477185				
Isopropylbenzene	1.382457	29.82945	20.8465	1.940285E-02			30	
Methyl Methacrylate	0.2362587	54.33968	14.72625	4.321529E-02				
Methyl tert-butyl ether (MTBE)	1.975569	17.38184	9.98025	0.1302265			30	
Methylene chloride	2.108219	71.28229	9.580429	2.787056E-02		0.9999807	0.99	
Naphthalene	1.605713	28.81616	27.6004	9.631682E-03				
n-Butylbenzene	1.745531	5.239689	24.2052	1.039977E-02				
n-Heptane	1.979354	3.533298	13.47325	1.698537E-02			30	
n-Hexane	1.509872	4.184026	10.45075	2.661884E-02			30	
n-Propylbenzene	1.619682	42.32279	21.62125	1.170543E-02				
o-Xylene	1.045352	18.98381	20.19662	4.30727E-03			30	
p- & m- Xylenes	1.044721	14.21382	19.41275	1.990121E-02			30	
p-Ethyltoluene	1.257361	48.83878	21.84562	1.831582E-02				
p-Isopropyltoluene	1.327251	60.94287	23.42	2.321695E-02				
Propylene	0.6547622	10.1171	5.31925	0.084912			30	
sec-Butylbenzene	1.63111	52.59124	23.161	0.0131555				
Styrene	0.7443945	35.85395	20.21475	0.0108606				

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Calibration: YB10001 Instrument: 5975C

Calibration Date: 01/28/21 00:14

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
SURR: p-Bromofluorobenzene	0.5337658	13.1414	21.26575	6.316804E-03			30	
tert-Butylbenzene	1.19972	51.03046	22.70475	1.377968E-02				
Tetrachloroethylene	0.4338053	8.675105	17.80325	1.941832E-02			30	
Tetrahydrofuran	1.034869	37.52092	12.41175	0.1445892				
Toluene	0.9712132	5.892857	16.61325	1.792639E-02			30	
trans-1,2-Dichloroethylene	1.319287	4.934335	10.1745	4.370982E-02			30	
trans-1,3-Dichloropropylene	0.3622548	21.25642	16.7675	2.834501E-02			30	
Trichloroethylene	0.3906294	13.17685	14.4926	6.252852E-03			30	
Trichlorofluoromethane (Freon 11)	1.968664	10.24719	7.76275	2.933307E-02			30	
Vinyl acetate	2.038641	57.8008	10.76787	8.271396E-02				
Vinyl bromide	0.8424028	10.29368	7.6475	5.681086E-02			30	
Vinyl Chloride	0.8529717	32.51032	6.1503	0.1429984				

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.	SDG:	21A0950
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Instrument ID:	TO15_AIR2	Calibration:	YA10030
Lab File ID:	TQ213076.D	Calibration Date:	01/26/21 07:48
Sequence:	Y1B0112	Injection Date:	01/30/21
Lab Sample ID:	Y1B0112-CCV1	Injection Time:	01:43

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	12.0	0.6920348	0.8279185		19.6	30	
Bromomethane	A	10.0	9.42	1.185133	1.116616		-5.8	30	
Carbon disulfide	A	10.0	10.9	3.328068	3.617659		8.7	30	
Carbon tetrachloride	A	10.0	12.1	3.480266	4.071391		17.0	30	
Chlorobenzene	A	10.0	10.2	1.052411	1.075185		2.2	30	
Chloroethane	A	10.0	9.28	0.4987259	0.4629157		-7.2	30	
Chloroform	A	10.0	11.0	3.027174	3.340547		10.4	30	
Chloromethane	A	10.0	10.9	0.519793	0.5671055		9.1	30	
cis-1,2-Dichloroethylene	A	10.0	10.4	1.593994	1.654451		3.8	30	
cis-1,3-Dichloropropylene	A	10.0	10.7	0.4529623	0.4840344		6.9	30	
Cyclohexane	A	10.0	10.4	1.4958	1.563022		4.5	30	
Dibromochloromethane	A	10.0	11.4	0.696375	0.7968079		14.4	30	
Dichlorodifluoromethane	A	10.0	3.15	3.593469	1.133352		-68.5	30	*
Ethyl acetate	A	10.0	10.4	1.934383	2.014633		4.1	30	
Ethyl Benzene	A	10.0	10.6	1.578363	1.676126		6.2	30	
Hexachlorobutadiene	A	10.0	12.1	0.7759784	0.9359681		20.6	30	
Isopropanol	Q	10.0	10.0	1.736529	1.737327		0.0	30	
Methyl Methacrylate	A	10.0	10.4	0.2618377	0.272681		4.1	30	
Methyl tert-butyl ether (MTBE)	A	10.0	10.8	3.649256	3.950155		8.2	30	
Methylene chloride	A	10.0	9.57	1.086933	1.040257		-4.3	30	
n-Heptane	A	10.0	10.6	1.409481	1.497145		6.2	30	
n-Hexane	A	10.0	9.07	1.640204	1.487098		-9.3	30	
o-Xylene	A	10.0	10.8	1.234236	1.330793		7.8	30	
p- & m- Xylenes	A	20.0	21.8	1.182349	1.289487		9.1	30	
p-Ethyltoluene	A	10.0	12.0	1.716013	2.053448		19.7	30	
Propylene	A	10.0	0.370	0.3825546	1.423775E-02		-96.3	30	*
Styrene	A	10.0	11.6	0.9084209	1.051449		15.7	30	
Tetrachloroethylene	A	10.0	11.0	0.607179	0.6669628		9.8	30	
Tetrahydrofuran	A	10.0	10.1	0.9039142	0.9126371		1.0	30	

ATTACHMENT D

ANNOTATED SUMMARY FORMS

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-5

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21A0950-01 File ID: TO287826.D

Sampled: 01/22/21 14:30 Prepared: 01/28/21 09:00 Analyzed: 01/29/21 11:48

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BA11299 Sequence: Y1A2944 Calibration: YB10001 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	23.1	16	UJ
71-55-6	1,1,1-Trichloroethane	23.1	13	UJ
79-34-5	1,1,2,2-Tetrachloroethane	23.1	16	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	23.1	18	UJ
79-00-5	1,1,2-Trichloroethane	23.1	13	UJ
75-34-3	1,1-Dichloroethane	23.1	9.3	UJ
75-35-4	1,1-Dichloroethylene	23.1	670	J
120-82-1	1,2,4-Trichlorobenzene	23.1	341	R
95-63-6	1,2,4-Trimethylbenzene	23.1	11	UJ
106-93-4	1,2-Dibromoethane	23.1	18	UJ
95-50-1	1,2-Dichlorobenzene	23.1	417	UJ
107-06-2	1,2-Dichloroethane	23.1	9.3	UJ
78-87-5	1,2-Dichloropropane	23.1	11	UJ
76-14-2	1,2-Dichlorotetrafluoroethane	23.1	16	UJ
108-67-8	1,3,5-Trimethylbenzene	23.1	341	UJ
106-99-0	1,3-Butadiene	23.1	15	UJ
541-73-1	1,3-Dichlorobenzene	23.1	417	UJ
142-28-9	1,3-Dichloropropane	23.1	11	UJ
106-46-7	1,4-Dichlorobenzene	23.1	417	UJ
123-91-1	1,4-Dioxane	23.1	17	UJ
78-93-3	2-Butanone	23.1	204	UJ
591-78-6	2-Hexanone	23.1	19	UJ
107-05-1	3-Chloropropene	23.1	36	UJ
108-10-1	4-Methyl-2-pentanone	23.1	9.5	UJ
67-64-1	Acetone	23.1	45	J
107-13-1	Acrylonitrile	23.1	5.0	UJ
71-43-2	Benzene	23.1	26	J
100-44-7	Benzyl chloride	23.1	12	UJ
75-27-4	Bromodichloromethane	23.1	15	UJ
75-25-2	Bromoform	23.1	24	UJ
74-83-9	Bromomethane	23.1	9.0	UJ
75-15-0	Carbon disulfide	23.1	13	J
56-23-5	Carbon tetrachloride	23.1	3.6	UJ
108-90-7	Chlorobenzene	23.1	11	UJ
75-00-3	Chloroethane	23.1	70	J
67-66-3	Chloroform	23.1	11	J
74-87-3	Chloromethane	23.1	4.8	UJ
10061-01-5	cis-1,3-Dichloropropylene	23.1	10	UJ
110-82-7	Cyclohexane	23.1	82	UJ
124-48-1	Dibromochloromethane	23.1	20	UJ

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-5

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21A0950-01 File ID: TO287826.D

Sampled: 01/22/21 14:30 Prepared: 01/28/21 09:00 Analyzed: 01/29/21 11:48

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BA11299 Sequence: Y1A2944 Calibration: YB10001 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
75-71-8	Dichlorodifluoromethane	23.1	11	UJ
141-78-6	Ethyl acetate	23.1	250	UJ
100-41-4	Ethyl Benzene	23.1	10	UJ
87-68-3	Hexachlorobutadiene	23.1	25	UJ
67-63-0	Isopropanol	23.1	254	UJ
80-62-6	Methyl Methacrylate	23.1	240	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	23.1	8.3	UJ
75-09-2	Methylene chloride	23.1	241	UJ
142-82-5	n-Heptane	23.1	87	J
110-54-3	n-Hexane	23.1	54	J
95-47-6	o-Xylene	23.1	10	UJ
179601-23-1	p- & m- Xylenes	23.1	20	UJ
622-96-8	p-Ethyltoluene	23.1	341	UJ
115-07-1	Propylene	23.1	4.0	UJ
100-42-5	Styrene	23.1	295	UJ
109-99-9	Tetrahydrofuran	23.1	204	UJ
108-88-3	Toluene	23.1	21	J
156-60-5	trans-1,2-Dichloroethylene	23.1	820	J
10061-02-6	trans-1,3-Dichloropropylene	23.1	10	UJ
75-69-4	Trichlorofluoromethane (Freon 11)	23.1	13	UJ
108-05-4	Vinyl acetate	23.1	244	UJ
593-60-2	Vinyl bromide	23.1	10	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	343584	12.31	340269	12.304	
ISTD: 1,4-Difluorobenzene	1108308	13.858	1154282	13.852	
ISTD: d5-Chlorobenzene	826775	19.101	987294	19.095	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-5

Laboratory:	York Analytical Laboratories, Inc.			SDG:	21A0950
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Soil Vapor	Laboratory ID:	21A0950-01RE1	File ID:	TO287839.D
Sampled:	01/22/21 14:30	Prepared:	01/29/21 18:00	Analyzed:	01/30/21 02:25
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BA11424	Sequence:	Y1B0113	Calibration:	YB10001
Instrument:	5975C				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
127-18-4	Tetrachloroethylene	247	73000	J
79-01-6	Trichloroethylene	247	28000	J
75-01-4	Vinyl Chloride	247	7900	J
460-00-4	SURR: p-Bromofluorobenzene	247	8.1	J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	343582	12.304	354135	12.304	
ISTD: 1,4-Difluorobenzene	1046080	13.852	1201521	13.852	
ISTD: d5-Chlorobenzene	758481	19.095	1029256	19.095	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-5

Laboratory:	York Analytical Laboratories, Inc.			SDG:	21A0950
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Soil Vapor	Laboratory ID:	21A0950-01RE2	File ID:	TO287840.D
Sampled:	01/22/21 14:30	Prepared:	01/29/21 18:00	Analyzed:	01/30/21 03:12
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BA11424	Sequence:	Y1B0113	Calibration:	YB10001
Instrument:	5975C				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
156-59-2	cis-1,2-Dichloroethylene	662	79000	J
460-00-4	SURR: p-Bromofluorobenzene	662	8.1	J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	323860	12.304	354135	12.304	
ISTD: 1,4-Difluorobenzene	985953	13.852	1201521	13.852	
ISTD: d5-Chlorobenzene	686290	19.101	1029256	19.095	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-6

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21A0950-02 File ID: TO287841.D

Sampled: 01/22/21 14:30 Prepared: 01/29/21 18:00 Analyzed: 01/30/21 04:04

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BA11424 Sequence: Y1B0113 Calibration: YB10001 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.69	1.2	UJ
71-55-6	1,1,1-Trichloroethane	1.69	0.92	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1.69	1.2	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.69	1.3	UJ
79-00-5	1,1,2-Trichloroethane	1.69	0.92	UJ
75-34-3	1,1-Dichloroethane	1.69	0.68	UJ
75-35-4	1,1-Dichloroethylene	1.69	0.17	UJ
120-82-1	1,2,4-Trichlorobenzene	1.69	1.3	R
95-63-6	1,2,4-Trimethylbenzene	1.69	1.4	J
106-93-4	1,2-Dibromoethane	1.69	1.3	UJ
95-50-1	1,2-Dichlorobenzene	1.69	30.5	UJ
107-06-2	1,2-Dichloroethane	1.69	0.68	UJ
78-87-5	1,2-Dichloropropane	1.69	0.78	UJ
76-14-2	1,2-Dichlorotetrafluoroethane	1.69	1.2	UJ
108-67-8	1,3,5-Trimethylbenzene	1.69	24.9	UJ
106-99-0	1,3-Butadiene	1.69	1.1	UJ
541-73-1	1,3-Dichlorobenzene	1.69	30.5	UJ
142-28-9	1,3-Dichloropropane	1.69	0.78	UJ
106-46-7	1,4-Dichlorobenzene	1.69	30.5	UJ
123-91-1	1,4-Dioxane	1.69	1.2	UJ
78-93-3	2-Butanone	1.69	16	J
591-78-6	2-Hexanone	1.69	3.2	J
107-05-1	3-Chloropropene	1.69	2.6	UJ
108-10-1	4-Methyl-2-pentanone	1.69	1.7	J
107-13-1	Acrylonitrile	1.69	0.37	UJ
71-43-2	Benzene	1.69	2.7	J
100-44-7	Benzyl chloride	1.69	0.87	UJ
75-27-4	Bromodichloromethane	1.69	1.1	UJ
75-25-2	Bromoform	1.69	1.7	UJ
74-83-9	Bromomethane	1.69	0.66	UJ
75-15-0	Carbon disulfide	1.69	8.3	J
56-23-5	Carbon tetrachloride	1.69	0.32	J
108-90-7	Chlorobenzene	1.69	0.78	UJ
75-00-3	Chloroethane	1.69	0.45	UJ
67-66-3	Chloroform	1.69	2.4	J
74-87-3	Chloromethane	1.69	1.4	J
156-59-2	cis-1,2-Dichloroethylene	1.69	65	J
10061-01-5	cis-1,3-Dichloropropylene	1.69	0.77	UJ
110-82-7	Cyclohexane	1.69	1.2	J
124-48-1	Dibromochloromethane	1.69	1.4	UJ

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-6

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21A0950-02 File ID: TO287841.D

Sampled: 01/22/21 14:30 Prepared: 01/29/21 18:00 Analyzed: 01/30/21 04:04

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BA11424 Sequence: Y1B0113 Calibration: YB10001 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
75-71-8	Dichlorodifluoromethane	1.69	2.0	J
141-78-6	Ethyl acetate	1.69	18.3	UJ
100-41-4	Ethyl Benzene	1.69	1.3	J
87-68-3	Hexachlorobutadiene	1.69	1.8	UJ
67-63-0	Isopropanol	1.69	1.7	J
80-62-6	Methyl Methacrylate	1.69	20.8	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1.69	0.97	J
75-09-2	Methylene chloride	1.69	5.7	J
142-82-5	n-Heptane	1.69	61	J
110-54-3	n-Hexane	1.69	21	J
95-47-6	o-Xylene	1.69	1.6	J
179601-23-1	p- & m- Xylenes	1.69	4.3	J
622-96-8	p-Ethyltoluene	1.69	1.4	J
115-07-1	Propylene	1.69	4.4	J
100-42-5	Styrene	1.69	21.6	UJ
127-18-4	Tetrachloroethylene	1.69	400	UJ
109-99-9	Tetrahydrofuran	1.69	2.8	J
108-88-3	Toluene	1.69	7.8	J
156-60-5	trans-1,2-Dichloroethylene	1.69	0.67	UJ
10061-02-6	trans-1,3-Dichloropropylene	1.69	0.77	UJ
79-01-6	Trichloroethylene	1.69	26	J
75-69-4	Trichlorofluoromethane (Freon 11)	1.69	1.0	J
108-05-4	Vinyl acetate	1.69	17.8	UJ
593-60-2	Vinyl bromide	1.69	0.74	UJ
75-01-4	Vinyl Chloride	1.69	1.9	J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	326120	12.304	354135	12.304	
ISTD: 1,4-Difluorobenzene	1074897	13.852	1201521	13.852	
ISTD: d5-Chlorobenzene	963577	19.095	1029256	19.095	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-6

Laboratory:	York Analytical Laboratories, Inc.			SDG:	21A0950
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Soil Vapor	Laboratory ID:	21A0950-02RE1	File ID:	TO287829.D
Sampled:	01/22/21 14:30	Prepared:	01/28/21 09:00	Analyzed:	01/29/21 14:21
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BA11299	Sequence:	Y1A2944	Calibration:	YB10001
Instrument:	5975C				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
67-64-1	Acetone	16.9	190	J
460-00-4	SURR: p-Bromofluorobenzene	16.9	9.7	J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	406177	12.304	340269	12.304	
ISTD: 1,4-Difluorobenzene	1333166	13.852	1154282	13.852	
ISTD: d5-Chlorobenzene	1017478	19.095	987294	19.095	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

IA-3

Laboratory: York Analytical Laboratories, Inc. SDG: 21A0950

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Indoor Ambient Air Laboratory ID: 21A0950-03 File ID: TQ213084.D

Sampled: 01/22/21 16:00 Prepared: 01/29/21 18:00 Analyzed: 01/30/21 09:18

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BA11425 Sequence: Y1B0112 Calibration: YA10030 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.04	0.71	UJ
71-55-6	1,1,1-Trichloroethane	1.04	0.57	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1.04	0.71	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.04	0.79	UJ
79-00-5	1,1,2-Trichloroethane	1.04	0.57	UJ
75-34-3	1,1-Dichloroethane	1.04	0.42	UJ
75-35-4	1,1-Dichloroethylene	1.04	0.10	UJ
120-82-1	1,2,4-Trichlorobenzene	1.04	0.77	R
95-63-6	1,2,4-Trimethylbenzene	1.04	1.0	J
106-93-4	1,2-Dibromoethane	1.04	0.80	UJ
95-50-1	1,2-Dichlorobenzene	1.04	0.62	UJ
107-06-2	1,2-Dichloroethane	1.04	0.42	UJ
78-87-5	1,2-Dichloropropane	1.04	0.48	UJ
76-14-2	1,2-Dichlorotetrafluoroethane	1.04	0.72	UJ
108-67-8	1,3,5-Trimethylbenzene	1.04	0.51	UJ
106-99-0	1,3-Butadiene	1.04	0.69	UJ
541-73-1	1,3-Dichlorobenzene	1.04	17.3	UJ
142-28-9	1,3-Dichloropropane	1.04	0.48	UJ
106-46-7	1,4-Dichlorobenzene	1.04	17.3	UJ
123-91-1	1,4-Dioxane	1.04	0.75	UJ
78-93-3	2-Butanone	1.04	2.9	J
591-78-6	2-Hexanone	1.04	0.85	UJ
107-05-1	3-Chloropropene	1.04	1.6	UJ
108-10-1	4-Methyl-2-pentanone	1.04	0.42	UJ
67-64-1	Acetone	1.04	12	J
107-13-1	Acrylonitrile	1.04	0.23	UJ
71-43-2	Benzene	1.04	1.1	J
100-44-7	Benzyl chloride	1.04	15.5	UJ
75-27-4	Bromodichloromethane	1.04	0.69	UJ
75-25-2	Bromoform	1.04	1.1	UJ
74-83-9	Bromomethane	1.04	0.40	UJ
75-15-0	Carbon disulfide	1.04	0.32	UJ
56-23-5	Carbon tetrachloride	1.04	0.52	J
108-90-7	Chlorobenzene	1.04	0.48	UJ
75-00-3	Chloroethane	1.04	0.27	UJ
67-66-3	Chloroform	1.04	0.56	J
74-87-3	Chloromethane	1.04	1.2	J
156-59-2	cis-1,2-Dichloroethylene	1.04	35	J
10061-01-5	cis-1,3-Dichloropropylene	1.04	0.47	UJ
110-82-7	Cyclohexane	1.04	0.57	J

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

IA-3

Laboratory:	York Analytical Laboratories, Inc.			SDG:	21A0950
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Indoor Ambient Air	Laboratory ID:	21A0950-03	File ID:	TQ213084.D
Sampled:	01/22/21 16:00	Prepared:	01/29/21 18:00	Analyzed:	01/30/21 09:18
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BA11425	Sequence:	Y1B0112	Calibration:	YA10030
Instrument:	TO15_AIR2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	1.04	0.88	UJ
75-71-8	Dichlorodifluoromethane	1.04	1.6	J
141-78-6	Ethyl acetate	1.04	0.75	UJ
100-41-4	Ethyl Benzene	1.04	0.63	J
87-68-3	Hexachlorobutadiene	1.04	1.1	UJ
67-63-0	Isopropanol	1.04	17	J
80-62-6	Methyl Methacrylate	1.04	1.4	J
1634-04-4	Methyl tert-butyl ether (MTBE)	1.04	0.37	UJ
75-09-2	Methylene chloride	1.04	2.6	J
142-82-5	n-Heptane	1.04	2.8	J
110-54-3	n-Hexane	1.04	1.8	J
95-47-6	o-Xylene	1.04	0.86	J
179601-23-1	p- & m- Xylenes	1.04	2.2	J
622-96-8	p-Ethyltoluene	1.04	0.82	J
115-07-1	Propylene	1.04	0.18	R
100-42-5	Styrene	1.04	0.44	UJ
127-18-4	Tetrachloroethylene	1.04	19	J
109-99-9	Tetrahydrofuran	1.04	3.4	J
108-88-3	Toluene	1.04	3.8	J
156-60-5	trans-1,2-Dichloroethylene	1.04	0.41	UJ
10061-02-6	trans-1,3-Dichloropropylene	1.04	0.47	UJ
79-01-6	Trichloroethylene	1.04	7.2	J
75-69-4	Trichlorofluoromethane (Freon 11)	1.04	2.1	J
108-05-4	Vinyl acetate	1.04	0.37	UJ
593-60-2	Vinyl bromide	1.04	0.45	UJ
75-01-4	Vinyl Chloride	1.04	1.0	J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	288825	12.036	232902	12.039	
ISTD: 1,4-Difluorobenzene	1494646	13.618	1292063	13.621	
ISTD: d5-Chlorobenzene	1271520	18.884	1203604	18.884	

* Values outside of QC limits

JR 12/8/2025

December 8, 2025

Mr. Jason Stewart
Advanced Cleanup Technologies
228 Park Ave S PMB 34864
New York, New York 10003

Re: Data Usability Summary Report – York Analytical Laboratories, Inc. - 21D0660

Dear Mr. Stewart:

The evaluation of analytical data by York Analytical Laboratories for project 9268-BXNY, which were reported in a single data package under Job No. 21D0660 has been completed. The following samples were reported.

SV-1 SV-2 SV-3

Analysis was performed in accordance with EPA Method TO-15 (volatile organics). The review was performed to the extent possible, in accordance with the analytical method, and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. National Functional Guidelines for Organic Data Review was consulted as needed. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes
7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

- The result for methylene chloride in SV-1 and SV-2 is qualified as estimated (J+) due to method blank contamination.

- The result for methylene chloride in SV-1 and SV-2 is qualified as estimated (J+) due to detection in the canister used for clean canister certification.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C. Annotated Summary Forms are included in Attachment D detailing qualifications resulting from the data review effort.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
    - Method, instrument blanks
    - Clean canister certification
    - Field blanks
    - Surrogate recoveries
    - LCS recoveries
    - Internal standard area response
    - Duplicates
    - Analyte Identification

- Instrument related quality control data:
    - Instrument tunes
    - Calibration summaries

The following sections of the report detail only quality control exceedances that impacted results. Where a quality control item exceeded control limits but there is no impact to the samples results, these are not detailed in the report.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package. The following documentation issues were observed during the review:

- The data package indicates that the laboratory did not hold certification for ethyl acetate, p-ethyltoluene, propylene, tetrahydrofuran, 1,1,1,2-tetrachloroethane, 1,3-dichloropropane, and 2-hexanone. It is noted that NY ELAP does not offer certification for ethyl acetate, p-ethyltoluene, propylene, tetrahydrofuran and 2-hexanone, but does offer certification for 1,1,1,2-tetrachloroethane and 1,3-dichloropropane. The laboratory was contacted to request clarification. The laboratory stated '*Given the age of the project, it is difficult to ascertain the exact circumstances in which these compounds were requested. We don't typically report non-certified compounds, except at the request of the client, so it can be safely assumed that there was correspondence regarding the accreditation status of the compounds at the time the samples were taken. Just to note- while these compounds are indeed non-certified under our scope of accreditation between 2020-2022, we ran the compounds in the exact same way we ran our certified compounds – quantitated against a multiple calibration, where they were properly qualified as specified by our certifying body*.'

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of April 13, 2021. The samples were received at the laboratory on the same day on April 14, 2021. The samples were analyzed within method hold time. However, the data package does contain sample receipt information regarding condition of canisters upon receipt. The sample preparation bench sheets documents canister vacuum upon receipt, which indicates all canisters preserved (pressure inside the canister maintained within +/- 5 psi from sampling to check in the laboratory or analysis).

A. Volatile Organics

1. Blanks

The table below summarizes method blank detections that impacted sample results:

Blank	Analyte	Conc (on-column ppbv_	Affected Sample
BD11066-BLK1	Methylene chloride	0.13	SV-2
BD11103-BLK1		0.13	SV-1

The result for methylene chloride in SV-1 and SV-2 is qualified as estimated (J+) due to method blank contamination.

2. Clean Canister Certification

Batch canister certification was performed on a canister that was not used to collect samples. Methylene chloride (0.11 ppbv on-column) is detected in the canister used for clean canister certification. The result for methylene chloride in SV-1 and SV-2 is qualified as estimated (J+) due to detection in the canister used for clean canister certification.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 21D0660

YOUR Information	Report To:	Invoice To:
Company: Advanced CleanTech	Company: ACT	Company: ACT
Address: 200 Broadhollow Rd Melville NY	Address: Same	Address: Same
Phone.: 516-441-5500	Phone.:	Phone.:
Contact: Jason Stewart	Contact: Paul Stewart	Contact: Kern Friedman
E-mail: jasons@act-earth	E-mail: pauls@act-earth	E-mail: KernF@act-earth

YOUR Project Number: 9628-BXNY

YOUR Project Name:

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected By: (print your name above and sign below) Tim Young

Air Matrix Codes

AI - Indoor Ambient Air
AO - Outdoor Amb. Air
AE - Vapor Extraction Well/ Process Gas/Effluent
AS - Soil Vapor/Sub-Slab

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SV-1	4/13/21 10:3	AS	-30	-8	23992	6867	TO-15
SV-2	" "	"	-30	-8	468	7419	"
SV-3	" "	"	-30	-8	37004	7091	"

Comments:

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___
Routine Survey ___ Other ___

Sampling Media

6 Liter Canister	X
Tedlar Bag	

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
T-T ACT		JR/York	4/14/21 12:25	JR/York	
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by**	**Date/Time**
				[illegible]	4/14/21 14:09

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

FORM I

METHOD BLANK DATA SHEET

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.			SDG:	21D0660
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Air	Laboratory ID:	BD11066-BLK1	File ID:	TQ214395.D
Prepared:	04/20/21 12:32	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	04/20/21 16:34	Instrument:	TO15_AIR2		
Batch:	BD11066	Sequence:	Y1D2135	Calibration:	YC10005

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
74-83-9	Bromomethane	0.39	U
75-15-0	Carbon disulfide	0.31	U
56-23-5	Carbon tetrachloride	0.16	U
108-90-7	Chlorobenzene	0.46	U
75-00-3	Chloroethane	0.26	U
67-66-3	Chloroform	0.49	U
74-87-3	Chloromethane	0.21	U
156-59-2	cis-1,2-Dichloroethylene	0.099	U
10061-01-5	cis-1,3-Dichloropropylene	0.45	U
110-82-7	Cyclohexane	0.34	U
124-48-1	Dibromochloromethane	0.85	U
75-71-8	Dichlorodifluoromethane	0.49	U
141-78-6	Ethyl acetate	0.72	U
100-41-4	Ethyl Benzene	0.43	U
87-68-3	Hexachlorobutadiene	1.1	U
67-63-0	Isopropanol	0.49	U
80-62-6	Methyl Methacrylate	0.41	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.36	U
75-09-2	Methylene chloride	0.69	J
142-82-5	n-Heptane	0.41	U
110-54-3	n-Hexane	0.35	U
95-47-6	o-Xylene	0.43	U
179601-23-1	p- & m- Xylenes	0.87	U
622-96-8	p-Ethyltoluene	0.49	U
115-07-1	Propylene	0.17	U
100-42-5	Styrene	0.43	U
127-18-4	Tetrachloroethylene	0.68	U
109-99-9	Tetrahydrofuran	0.59	U
108-88-3	Toluene	0.38	U
156-60-5	trans-1,2-Dichloroethylene	0.40	U

FORM I

METHOD BLANK DATA SHEET

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.			SDG:	21D0660
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Air	Laboratory ID:	BD11103-BLK1	File ID:	TQ214421.D
Prepared:	04/21/21 12:41	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	04/21/21 19:41	Instrument:	TO15_AIR2		
Batch:	BD11103	Sequence:	Y1D2220	Calibration:	YC10005

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
74-83-9	Bromomethane	0.39	U
75-15-0	Carbon disulfide	0.31	U
56-23-5	Carbon tetrachloride	0.16	U
108-90-7	Chlorobenzene	0.46	U
75-00-3	Chloroethane	0.26	U
67-66-3	Chloroform	0.49	U
74-87-3	Chloromethane	0.21	U
156-59-2	cis-1,2-Dichloroethylene	0.099	U
10061-01-5	cis-1,3-Dichloropropylene	0.45	U
110-82-7	Cyclohexane	0.34	U
124-48-1	Dibromochloromethane	0.85	U
75-71-8	Dichlorodifluoromethane	0.49	U
141-78-6	Ethyl acetate	0.72	U
100-41-4	Ethyl Benzene	0.43	U
87-68-3	Hexachlorobutadiene	1.1	U
67-63-0	Isopropanol	0.49	U
80-62-6	Methyl Methacrylate	0.41	U
1634-04-4	Methyl tert-butyl ether (MTBE)	0.36	U
75-09-2	Methylene chloride	0.69	J
142-82-5	n-Heptane	0.41	U
110-54-3	n-Hexane	0.35	J
95-47-6	o-Xylene	0.43	J
179601-23-1	p- & m- Xylenes	0.87	U
622-96-8	p-Ethyltoluene	0.49	U
115-07-1	Propylene	0.17	U
100-42-5	Styrene	0.43	U
127-18-4	Tetrachloroethylene	0.68	U
109-99-9	Tetrahydrofuran	0.59	U
108-88-3	Toluene	0.38	U
156-60-5	trans-1,2-Dichloroethylene	0.40	U

Quantitation Report (QT Reviewed)

Data Path : D:\040721\
Data File : TO288688A.D
Acq On : 7 Apr 2021 11:15 pm
Operator : AS
Sample : BD10393-BLK2
Misc : QBTO1040721A Batch Cert. Can#37790 QBS040221A
ALS Vial : 92 Sample Multiplier: 1
InstName : 5975C

Quant Time: Apr 08 13:46:11 2021
Quant Method : C:\msdchem\1\methods\AIR132.M
Quant Title : TO15 VOC Analysis
QLast Update : Mon Apr 05 17:06:27 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Methane, bromochloro-	12.243	49	418040	10.00	ppbv	0.00
38) 1,4-Difluorobenzene	13.791	114	958406	10.00	ppbv	0.00
54) d5-Chlorobenzene	19.034	117	654058	10.00	ppbv	0.00
System Monitoring Compounds						
65) p-Bromofluorobenzene	21.198	95	324506	7.78	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 77.80%			
Target Compounds						Qvalue
2) Propylene	5.275	42	849	0.04	ppbv	# 25
4) 1,2-Dichlorotetrafluor...	5.610	85	2491	0.02	ppbv	# 87
15) Acetone	8.487	43	1240	0.02	ppbv	# 43
19) Methylene Chloride	9.518	49	5486	0.11	ppbv	91
24) Hexane	10.395	57	5409	0.08	ppbv	89
58) p- & m-Xylenes	19.351	91	3875	0.04	ppbv	# 69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ATTACHMENT D

ANNOTATED SUMMARY FORMS

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA TO-15

SV-1

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0660

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21D0660-01 File ID: TQ214422.D

Sampled: 04/13/21 15:00 Prepared: 04/21/21 12:41 Analyzed: 04/21/21 20:44

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BD11103 Sequence: Y1D2220 Calibration: YC10005 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.55	1.1	U
71-55-6	1,1,1-Trichloroethane	1.55	0.84	U
79-34-5	1,1,2,2-Tetrachloroethane	1.55	1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.55	1.2	U
79-00-5	1,1,2-Trichloroethane	1.55	0.84	U
75-34-3	1,1-Dichloroethane	1.55	0.63	U
75-35-4	1,1-Dichloroethylene	1.55	0.15	U
120-82-1	1,2,4-Trichlorobenzene	1.55	1.1	U
95-63-6	1,2,4-Trimethylbenzene	1.55	3.8	
106-93-4	1,2-Dibromoethane	1.55	1.2	U
95-50-1	1,2-Dichlorobenzene	1.55	0.93	U
107-06-2	1,2-Dichloroethane	1.55	0.63	U
78-87-5	1,2-Dichloropropane	1.55	0.71	U
76-14-2	1,2-Dichlorotetrafluoroethane	1.55	1.1	U
108-67-8	1,3,5-Trimethylbenzene	1.55	1.3	
106-99-0	1,3-Butadiene	1.55	1.0	U
541-73-1	1,3-Dichlorobenzene	1.55	0.93	U
142-28-9	1,3-Dichloropropane	1.55	0.71	U
106-46-7	1,4-Dichlorobenzene	1.55	0.93	U
123-91-1	1,4-Dioxane	1.55	1.1	U
78-93-3	2-Butanone	1.55	1.3	
591-78-6	2-Hexanone	1.55	1.3	U
107-05-1	3-Chloropropene	1.55	2.4	U
108-10-1	4-Methyl-2-pentanone	1.55	0.63	U
67-64-1	Acetone	1.55	11	
107-13-1	Acrylonitrile	1.55	0.34	U
71-43-2	Benzene	1.55	1.3	
100-44-7	Benzyl chloride	1.55	0.80	U
75-27-4	Bromodichloromethane	1.55	1.0	U
75-25-2	Bromoform	1.55	1.6	U
74-83-9	Bromomethane	1.55	0.60	U
75-15-0	Carbon disulfide	1.55	2.1	
56-23-5	Carbon tetrachloride	1.55	0.49	
108-90-7	Chlorobenzene	1.55	0.71	U
75-00-3	Chloroethane	1.55	0.41	U
67-66-3	Chloroform	1.55	8.2	
74-87-3	Chloromethane	1.55	0.32	U
156-59-2	cis-1,2-Dichloroethylene	1.55	0.15	U
10061-01-5	cis-1,3-Dichloropropylene	1.55	0.70	U
110-82-7	Cyclohexane	1.55	0.53	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SV-1

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0660

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21D0660-01 File ID: TQ214422.D

Sampled: 04/13/21 15:00 Prepared: 04/21/21 12:41 Analyzed: 04/21/21 20:44

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BD11103 Sequence: Y1D2220 Calibration: YC10005 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	1.55	1.3	U
75-71-8	Dichlorodifluoromethane	1.55	2.3	
141-78-6	Ethyl acetate	1.55	1.1	U
100-41-4	Ethyl Benzene	1.55	10	
87-68-3	Hexachlorobutadiene	1.55	1.6	U
67-63-0	Isopropanol	1.55	0.76	U
80-62-6	Methyl Methacrylate	1.55	0.63	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1.55	0.56	U
75-09-2	Methylene chloride	1.55	1.1	J+
142-82-5	n-Heptane	1.55	0.63	U
110-54-3	n-Hexane	1.55	0.93	
95-47-6	o-Xylene	1.55	7.0	
179601-23-1	p- & m- Xylenes	1.55	22	
622-96-8	p-Ethyltoluene	1.55	3.0	
115-07-1	Propylene	1.55	2.8	
100-42-5	Styrene	1.55	0.66	U
127-18-4	Tetrachloroethylene	1.55	95	
109-99-9	Tetrahydrofuran	1.55	1.1	
108-88-3	Toluene	1.55	17	
156-60-5	trans-1,2-Dichloroethylene	1.55	0.61	U
10061-02-6	trans-1,3-Dichloropropylene	1.55	0.70	U
79-01-6	Trichloroethylene	1.55	7.3	
75-69-4	Trichlorofluoromethane (Freon 11)	1.55	1.6	
108-05-4	Vinyl acetate	1.55	0.54	U
593-60-2	Vinyl bromide	1.55	0.68	U
75-01-4	Vinyl Chloride	1.55	0.20	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	219973	12.062	207186	12.072	
ISTD: 1,4-Difluorobenzene	1127831	13.638	1080437	13.641	
ISTD: d5-Chlorobenzene	1059994	18.895	1034699	18.895	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SV-2

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0660

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21D0660-02 File ID: TQ214403.D

Sampled: 04/13/21 15:00 Prepared: 04/20/21 12:32 Analyzed: 04/21/21 00:28

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BD11066 Sequence: Y1D2135 Calibration: YC10005 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.75	1.2	U
71-55-6	1,1,1-Trichloroethane	1.75	0.96	U
79-34-5	1,1,2,2-Tetrachloroethane	1.75	1.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.75	1.3	U
79-00-5	1,1,2-Trichloroethane	1.75	0.96	U
75-34-3	1,1-Dichloroethane	1.75	0.71	U
75-35-4	1,1-Dichloroethylene	1.75	0.17	U
120-82-1	1,2,4-Trichlorobenzene	1.75	1.3	U
95-63-6	1,2,4-Trimethylbenzene	1.75	5.3	
106-93-4	1,2-Dibromoethane	1.75	1.3	U
95-50-1	1,2-Dichlorobenzene	1.75	1.1	U
107-06-2	1,2-Dichloroethane	1.75	0.71	U
78-87-5	1,2-Dichloropropane	1.75	0.81	U
76-14-2	1,2-Dichlorotetrafluoroethane	1.75	1.2	U
108-67-8	1,3,5-Trimethylbenzene	1.75	2.0	
106-99-0	1,3-Butadiene	1.75	1.4	
541-73-1	1,3-Dichlorobenzene	1.75	1.1	U
142-28-9	1,3-Dichloropropane	1.75	0.81	U
106-46-7	1,4-Dichlorobenzene	1.75	1.1	U
123-91-1	1,4-Dioxane	1.75	1.3	U
78-93-3	2-Butanone	1.75	20	
591-78-6	2-Hexanone	1.75	1.4	U
107-05-1	3-Chloropropene	1.75	2.7	U
108-10-1	4-Methyl-2-pentanone	1.75	3.0	
67-64-1	Acetone	1.75	65	
107-13-1	Acrylonitrile	1.75	0.38	U
71-43-2	Benzene	1.75	26	
100-44-7	Benzyl chloride	1.75	0.91	U
75-27-4	Bromodichloromethane	1.75	1.2	U
75-25-2	Bromoform	1.75	1.8	U
74-83-9	Bromomethane	1.75	0.68	U
75-15-0	Carbon disulfide	1.75	67	
56-23-5	Carbon tetrachloride	1.75	0.28	U
108-90-7	Chlorobenzene	1.75	0.81	U
75-00-3	Chloroethane	1.75	0.46	U
67-66-3	Chloroform	1.75	4.0	
74-87-3	Chloromethane	1.75	0.36	U
156-59-2	cis-1,2-Dichloroethylene	1.75	0.42	
10061-01-5	cis-1,3-Dichloropropylene	1.75	0.80	U
110-82-7	Cyclohexane	1.75	3.1	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SV-2

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0660

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21D0660-02 File ID: TQ214403.D

Sampled: 04/13/21 15:00 Prepared: 04/20/21 12:32 Analyzed: 04/21/21 00:28

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BD11066 Sequence: Y1D2135 Calibration: YC10005 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	1.75	1.5	U
75-71-8	Dichlorodifluoromethane	1.75	2.4	
141-78-6	Ethyl acetate	1.75	1.3	U
100-41-4	Ethyl Benzene	1.75	3.3	
87-68-3	Hexachlorobutadiene	1.75	1.9	U
67-63-0	Isopropanol	1.75	1.4	
80-62-6	Methyl Methacrylate	1.75	0.72	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1.75	0.63	U
75-09-2	Methylene chloride	1.75	1.9	J+
142-82-5	n-Heptane	1.75	11	
110-54-3	n-Hexane	1.75	11	
95-47-6	o-Xylene	1.75	5.1	
179601-23-1	p- & m- Xylenes	1.75	11	
622-96-8	p-Ethyltoluene	1.75	5.1	
115-07-1	Propylene	1.75	36	
100-42-5	Styrene	1.75	0.75	U
127-18-4	Tetrachloroethylene	1.75	80	
109-99-9	Tetrahydrofuran	1.75	1.0	U
108-88-3	Toluene	1.75	19	
156-60-5	trans-1,2-Dichloroethylene	1.75	0.70	U
10061-02-6	trans-1,3-Dichloropropylene	1.75	0.80	U
79-01-6	Trichloroethylene	1.75	2.9	
75-69-4	Trichlorofluoromethane (Freon 11)	1.75	1.3	
108-05-4	Vinyl acetate	1.75	0.62	U
593-60-2	Vinyl bromide	1.75	0.77	U
75-01-4	Vinyl Chloride	1.75	0.22	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	201198	12.066	232457	12.065	
ISTD: 1,4-Difluorobenzene	1021693	13.638	1189631	13.635	
ISTD: d5-Chlorobenzene	965801	18.888	1133083	18.888	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SV-3

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0660

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21D0660-03 File ID: TQ214409.D

Sampled: 04/13/21 15:00 Prepared: 04/20/21 12:32 Analyzed: 04/21/21 06:34

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BD11066 Sequence: Y1D2135 Calibration: YC10005 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.7	1.2	U
71-55-6	1,1,1-Trichloroethane	1.7	0.93	U
79-34-5	1,1,2,2-Tetrachloroethane	1.7	1.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.7	1.3	U
79-00-5	1,1,2-Trichloroethane	1.7	0.93	U
75-34-3	1,1-Dichloroethane	1.7	0.69	U
75-35-4	1,1-Dichloroethylene	1.7	0.17	U
120-82-1	1,2,4-Trichlorobenzene	1.7	1.3	U
95-63-6	1,2,4-Trimethylbenzene	1.7	3.0	
106-93-4	1,2-Dibromoethane	1.7	1.3	U
95-50-1	1,2-Dichlorobenzene	1.7	1.0	U
107-06-2	1,2-Dichloroethane	1.7	0.69	U
78-87-5	1,2-Dichloropropane	1.7	0.79	U
76-14-2	1,2-Dichlorotetrafluoroethane	1.7	1.2	U
108-67-8	1,3,5-Trimethylbenzene	1.7	0.84	U
106-99-0	1,3-Butadiene	1.7	1.1	U
541-73-1	1,3-Dichlorobenzene	1.7	1.0	U
142-28-9	1,3-Dichloropropane	1.7	0.79	U
106-46-7	1,4-Dichlorobenzene	1.7	1.0	U
123-91-1	1,4-Dioxane	1.7	1.2	U
78-93-3	2-Butanone	1.7	1.4	
591-78-6	2-Hexanone	1.7	1.4	U
107-05-1	3-Chloropropene	1.7	2.7	U
108-10-1	4-Methyl-2-pentanone	1.7	0.70	U
67-64-1	Acetone	1.7	9.9	
107-13-1	Acrylonitrile	1.7	0.37	U
71-43-2	Benzene	1.7	0.54	U
100-44-7	Benzyl chloride	1.7	0.88	U
75-27-4	Bromodichloromethane	1.7	4.1	
75-25-2	Bromoform	1.7	1.8	U
74-83-9	Bromomethane	1.7	0.66	U
75-15-0	Carbon disulfide	1.7	1.3	
56-23-5	Carbon tetrachloride	1.7	0.64	
108-90-7	Chlorobenzene	1.7	0.78	U
75-00-3	Chloroethane	1.7	0.45	U
67-66-3	Chloroform	1.7	67	
74-87-3	Chloromethane	1.7	0.35	U
156-59-2	cis-1,2-Dichloroethylene	1.7	0.17	U
10061-01-5	cis-1,3-Dichloropropylene	1.7	0.77	U
110-82-7	Cyclohexane	1.7	0.59	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SV-3

Laboratory: York Analytical Laboratories, Inc. SDG: 21D0660

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 21D0660-03 File ID: TQ214409.D

Sampled: 04/13/21 15:00 Prepared: 04/20/21 12:32 Analyzed: 04/21/21 06:34

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BD11066 Sequence: Y1D2135 Calibration: YC10005 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	1.7	1.4	U
75-71-8	Dichlorodifluoromethane	1.7	2.3	
141-78-6	Ethyl acetate	1.7	1.2	U
100-41-4	Ethyl Benzene	1.7	0.81	
87-68-3	Hexachlorobutadiene	1.7	1.8	U
67-63-0	Isopropanol	1.7	0.84	U
80-62-6	Methyl Methacrylate	1.7	0.70	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1.7	0.61	U
75-09-2	Methylene chloride	1.7	1.2	U
142-82-5	n-Heptane	1.7	0.70	U
110-54-3	n-Hexane	1.7	0.78	
95-47-6	o-Xylene	1.7	1.3	
179601-23-1	p- & m- Xylenes	1.7	3.9	
622-96-8	p-Ethyltoluene	1.7	2.0	
115-07-1	Propylene	1.7	1.8	
100-42-5	Styrene	1.7	0.73	U
127-18-4	Tetrachloroethylene	1.7	12	
109-99-9	Tetrahydrofuran	1.7	1.0	U
108-88-3	Toluene	1.7	1.6	
156-60-5	trans-1,2-Dichloroethylene	1.7	0.67	U
10061-02-6	trans-1,3-Dichloropropylene	1.7	0.77	U
79-01-6	Trichloroethylene	1.7	0.23	U
75-69-4	Trichlorofluoromethane (Freon 11)	1.7	1.3	
108-05-4	Vinyl acetate	1.7	0.60	U
593-60-2	Vinyl bromide	1.7	0.74	U
75-01-4	Vinyl Chloride	1.7	0.22	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	242722	12.062	232457	12.065	
ISTD: 1,4-Difluorobenzene	1231707	13.638	1189631	13.635	
ISTD: d5-Chlorobenzene	1124826	18.892	1133083	18.888	

* Values outside of QC limits

JR 12/8/2025

December 8, 2025

Mr. Jason Stewart
Advanced Cleanup Technologies
228 Park Ave S PMB 34864
New York, New York 10003

Re: Data Usability Summary Report – York Analytical Laboratories, Inc. - 22F1004

Dear Mr. Stewart:

The evaluation of analytical data by York Analytical Laboratories for project 9268-BXNY, which were reported in a single data package under Job No. 22F1004 has been completed. The following samples were reported.

SS-15 OA-3 IA-14

Analysis was performed in accordance with EPA Method TO-15 (volatile organics). The review was performed to the extent possible, in accordance with the analytical method, and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. National Functional Guidelines for Organic Data Review was consulted as needed. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	Yes
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes
7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

- The result for isopropanol in SS-15 and OA-13 is qualified as estimated (J-) due to unacceptable calibration.

- The results 1,2,4-trichlorobenzene, 2-hexanone, 4-methyl-2-pentanone and hexachlorobutadiene in all samples are qualified as estimated (UJ) due to low response in the continuing calibration verification (CCV) standard.

- The results for 1,2,4-trichlorobenzene, 2-hexanone, 4-methyl-2-pentanone and hexachlorobutadiene in all samples are qualified as estimated (UJ) due to recovery in the laboratory control sample (LCS).

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C. Annotated Summary Forms are included in Attachment D detailing qualifications resulting from the data review effort.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
    - Method, instrument blanks
    - Clean canister certification
    - Field blanks
    - Surrogate recoveries
    - LCS recoveries
    - Internal standard area response
    - Duplicates
    - Analyte Identification

- Instrument related quality control data:
    - Instrument tunes
    - Calibration summaries

The following sections of the report detail only quality control exceedances that impacted results. Where a quality control item exceeded control limits but there is no impact to the samples results, these are not detailed in the report.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package. The following documentation issues were observed during the review:

- The data package indicates that the laboratory did not hold certification for ethyl acetate, p-ethyltoluene, propylene, tetrahydrofuran, 1,1,1,2-tetrachloroethane, 1,3-dichloropropane, and 2-hexanone. It is noted that NY ELAP does not offer certification for ethyl acetate, p-ethyltoluene, propylene, tetrahydrofuran and 2-hexanone, but does offer certification for 1,1,1,2-tetrachloroethane and 1,3-dichloropropane. The laboratory was contacted to request clarification. The laboratory stated '*Given the age of the project, it is difficult to ascertain the exact circumstances in which these compounds were requested. We don't typically report non-certified compounds, except at the request of the client, so it can be safely assumed that there was correspondence regarding the accreditation status of the compounds at the time the samples were taken. Just to note- while these compounds are indeed non-certified under our scope of accreditation between 2020-2022, we ran the compounds in the exact same way we ran our certified compounds – quantitated against a multiple calibration, where they were properly qualified as specified by our certifying body*.'
- The Summary Form for the CCV analyzed on 06/22/22 06:51 incorrectly identifies the analysis time as 04/19/22 22:46.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection dates of June 16 and 17, 2022. The samples were received at the laboratory on the same day on June 20, 2022. The samples were analyzed within method hold time. However, the data package does contain sample receipt information regarding condition of canisters upon receipt. The sample preparation bench sheets documents canister vacuum upon receipt, which indicates all canisters preserved (pressure inside the canister maintained within +/- 5 psi from sampling to check in the laboratory or analysis).

A. Volatile Organics

1. Calibration

One initial calibration (IC) was performed in support of the sample analysis. All relative

response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients are acceptable with the exception noted below.

Analyte	RSD
Isopropanol	55.2

The laboratory applied quadratic equations to achieve an acceptable correlation coefficient and used this model to quantitate sample concentrations. However, a review of the individual calibration levels indicates high responses in the lower calibration standards as presented below.

Analyte	RRF 50	RRF 30	RRF 20	RRF 10	RRF 3	RRF 0.5	RRF 0.2	RRF 0.1
Isopropanol	1.638682	1.676867	1.67942	1.781029	2.102878	**2.991038**	**4.032331**	**5.756278**

The high RSD for isopropanol is caused by excessively high response factors in the three lowest concentration standards (**bolded above**). The validator calculated the RSD with these two standards excluded, and the RSD for isopropanol is 10.7%.

The recalculated sample concentration using the updated average relative response factor is presented below:

Sample	Reported Isopropanol (on-column ppbv)	Recalculated Isopropanol (on-column ppbv)	%D
SS-15	0.30	0.67	123
OA-13	0.62	0.98	58
IA-14	8.58	8.51	08

Where the difference in concentration is less than 5%, no action is taken. Where the difference in concertation exceeds 5% sample results are qualified as estimated (J-), biased low due to unacceptable calibration. The result for isopropanol in SS-15 and OA-13 is qualified as estimated (J-) due to unacceptable calibration. The concentration of isopropanol in IA-14 is greater than the concentration of the 3ppv standard and the high responses for isopropanol in the low standards has no impact on sample results.

A second source ICV standard was analyzed after the IC, and all percent differences are acceptable ($\leq$30%D). CCVs were analyzed at the appropriate frequency and are acceptable (%D$\leq$30) with the exceptions noted below.

Analyte	%D	Associated Sample	Qualifier Applied
CCV 06/22/22 06:51			
1,2,4-Trichlorobenzene	-42.8	OA-3 IA-14	UJ
2-Hexanone	-22.4		
4-Methyl-2-pentanone	-42.0		
Hexachlorobutadiene	-41.8		
CCV 04/19/22 22:46			
1,2,4-Trichlorobenzene	-36.1	SS-15	UJ
2-Hexanone	-42.5		
4-Methyl-2-pentanone	-39.6		
Hexachlorobutadiene	-39.3		

The percent differences represent a decrease in instrument sensitivity. The results 1,2,4-trichlorobenzene, 2-hexanone, 4-methyl-2-pentanone and hexachlorobutadiene in all samples are qualified as estimated (UJ) due to low response in the CCV.

2. Laboratory Control Sample (LCS) /LCS Duplicate (LCSD)

Two LCSs were prepared and analyzed with the sample. All recoveries are acceptable (70-130%R), with the following exceptions:

Analyte	LCS %R	Affected Sample	Qualifier Applied
BF21412-BS1			
1,2,4-Trichlorobenzene	62.1	OA-3 IA-14	UJ
2-Hexanone	53.4		
4-Methyl-2-pentanone	56.6		
Hexachlorobutadiene	57.2		
Analyte	**LCS %R**	**Affected Sample**	**Qualifier Applied**
BF21498-BS1			
1,2,4-Trichlorobenzene	68.2	SS-15	UJ
2-Hexanone	57.4		
4-Methyl-2-pentanone	60.0		
Hexachlorobutadiene	62.3		

The results for 1,2,4-trichlorobenzene, 2-hexanone, 4-methyl-2-pentanone and hexachlorobutadiene in all samples are qualified as estimated (UJ) due to recovery in the LCS.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

YORK Project No. 22F1004

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Advanced Cleanup Tech	Company: ACT	Company: ACT	9628-BX,NY	RUSH - Next Day
Address: 228 Park Ave S PMB 34864 NY NY 10003	Address: same	Address: same	YOUR Project Name	RUSH - Two Day
Phone.: 631 466 4938	Phone.:	Phone.:		RUSH - Three Day
Contact: Jason Stewart	Contact: Paul Stewart	Contact: Kara Friedman		RUSH - Four Day
E-mail: jasons@act.earth	E-mail: pauls@act.earth	E-mail: karaf@act.earth	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected By: (print your name above and sign below) Tim Yang

Air Matrix Codes
- (AI) - Indoor Ambient Air
- (AO) - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- (AS) - Soil Vapor/Sub-Slab

Samples From
- New York X
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)

(Summary Report)	CT RCP	(Standard Excel EDD)
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
(NY ASP B Package)	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
SS-15	6/16/22 9-1	AS	-30	-9	36488	7093	TO-15
OA-3	6/16-6/17	AO	-30	-10	10013	7364	"
IA-14	" "	AI	-30	-10	42991	5606	"

Comments:

Detection Limits Required
≤ 1 ug/m³ ✓ NYSDEC V1 Limits ____
Routine Survey ____ Other ____

Sampling Media
6 Liter Canister ✓
Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
ACT GARAGE	6/20/22 7:10AM	KBarkyork	6/20/22 7:40AM	KBarkyork	6/20/22 1652
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
TJack	6/20/22 1652	TJack 6/21/22 1245	6.21.22 1245	Ivan B	6.21.22 1245
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
Ivan B	6.21.22			Alena A Schuck	6/21/22 16:15

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.	SDG:	22F1004
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Matrix:	Air		
Batch:	BF21412	Laboratory ID:	BF21412-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	8.89	88.9	70 - 130
1,1,1-Trichloroethane	10.0	10.3	103	70 - 130
1,1,2,2-Tetrachloroethane	10.0	7.92	79.2	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.1	101	70 - 130
1,1,2-Trichloroethane	10.0	8.39	83.9	70 - 130
1,1-Dichloroethane	10.0	9.19	91.9	70 - 130
1,1-Dichloroethylene	10.0	8.73	87.3	70 - 130
1,2,4-Trichlorobenzene	10.0	6.21	62.1 *	70 - 130
1,2,4-Trimethylbenzene	10.0	7.83	78.3	70 - 130
1,2-Dibromoethane	10.0	8.47	84.7	70 - 130
1,2-Dichlorobenzene	10.0	7.51	75.1	70 - 130
1,2-Dichloroethane	10.0	9.32	93.2	70 - 130
1,2-Dichloropropane	10.0	7.59	75.9	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	11.2	112	70 - 130
1,3,5-Trimethylbenzene	10.0	7.93	79.3	70 - 130
1,3-Butadiene	10.0	7.28	72.8	70 - 130
1,3-Dichlorobenzene	10.0	7.71	77.1	70 - 130
1,3-Dichloropropane	10.0	8.06	80.6	70 - 130
1,4-Dichlorobenzene	10.0	7.55	75.5	70 - 130
1,4-Dioxane	10.0	7.04	70.4	70 - 130
2-Butanone	10.0	7.77	77.7	70 - 130
2-Hexanone	10.0	5.34	53.4 *	70 - 130
3-Chloropropene	10.0	7.83	78.3	70 - 130
4-Methyl-2-pentanone	10.0	5.66	56.6 *	70 - 130
Acetone	10.0	7.04	70.4	70 - 130
Acrylonitrile	10.0	7.99	79.9	70 - 130
Benzene	10.0	9.11	91.1	70 - 130
Benzyl chloride	10.0	7.39	73.9	70 - 130
Bromodichloromethane	10.0	8.29	82.9	70 - 130
Bromoform	10.0	8.93	89.3	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.	SDG:	22F1004
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Matrix:	Air		
Batch:	BF21412	Laboratory ID:	BF21412-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	10.2	102	70 - 130
Carbon disulfide	10.0	9.59	95.9	70 - 130
Carbon tetrachloride	10.0	9.51	95.1	70 - 130
Chlorobenzene	10.0	8.36	83.6	70 - 130
Chloroethane	10.0	9.11	91.1	70 - 130
Chloroform	10.0	9.90	99.0	70 - 130
Chloromethane	10.0	7.18	71.8	70 - 130
cis-1,2-Dichloroethylene	10.0	8.52	85.2	70 - 130
cis-1,3-Dichloropropylene	10.0	8.19	81.9	70 - 130
Cyclohexane	10.0	8.75	87.5	70 - 130
Dibromochloromethane	10.0	9.36	93.6	70 - 130
Dichlorodifluoromethane	10.0	10.0	100	70 - 130
Ethyl acetate	10.0	8.17	81.7	70 - 130
Ethyl Benzene	10.0	8.55	85.5	70 - 130
Hexachlorobutadiene	10.0	5.72	57.2 *	70 - 130
Isopropanol	10.0	8.18	81.8	70 - 130
Methyl Methacrylate	10.0	7.69	76.9	70 - 130
Methyl tert-butyl ether (MTBE)	10.0	9.50	95.0	70 - 130
Methylene chloride	10.0	7.70	77.0	70 - 130
n-Heptane	10.0	8.15	81.5	70 - 130
n-Hexane	10.0	8.75	87.5	70 - 130
o-Xylene	10.0	8.49	84.9	70 - 130
p- & m- Xylenes	20.0	17.1	85.7	70 - 130
p-Ethyltoluene	10.0	8.14	81.4	70 - 130
Propylene	10.0	7.82	78.2	70 - 130
Styrene	10.0	8.09	80.9	70 - 130
Tetrachloroethylene	10.0	7.78	77.8	70 - 130
Tetrahydrofuran	10.0	7.83	78.3	70 - 130
Toluene	10.0	8.11	81.1	70 - 130
trans-1,2-Dichloroethylene	10.0	9.06	90.6	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.	SDG:	22F1004
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Matrix:	Air		
Batch:	BF21498	Laboratory ID:	BF21498-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.55	95.5	70 - 130
1,1,1-Trichloroethane	10.0	11.4	114	70 - 130
1,1,2,2-Tetrachloroethane	10.0	8.62	86.2	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11.2	112	70 - 130
1,1,2-Trichloroethane	10.0	9.14	91.4	70 - 130
1,1-Dichloroethane	10.0	10.0	100	70 - 130
1,1-Dichloroethylene	10.0	9.65	96.5	70 - 130
1,2,4-Trichlorobenzene	10.0	6.82	68.2 *	70 - 130
1,2,4-Trimethylbenzene	10.0	8.72	87.2	70 - 130
1,2-Dibromoethane	10.0	9.18	91.8	70 - 130
1,2-Dichlorobenzene	10.0	8.29	82.9	70 - 130
1,2-Dichloroethane	10.0	10.5	105	70 - 130
1,2-Dichloropropane	10.0	7.98	79.8	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	12.4	124	70 - 130
1,3,5-Trimethylbenzene	10.0	8.84	88.4	70 - 130
1,3-Butadiene	10.0	8.10	81.0	70 - 130
1,3-Dichlorobenzene	10.0	8.54	85.4	70 - 130
1,3-Dichloropropane	10.0	8.66	86.6	70 - 130
1,4-Dichlorobenzene	10.0	8.31	83.1	70 - 130
1,4-Dioxane	10.0	7.51	75.1	70 - 130
2-Butanone	10.0	8.37	83.7	70 - 130
2-Hexanone	10.0	5.74	57.4 *	70 - 130
3-Chloropropene	10.0	8.24	82.4	70 - 130
4-Methyl-2-pentanone	10.0	6.00	60.0 *	70 - 130
Acetone	10.0	7.76	77.6	70 - 130
Acrylonitrile	10.0	8.48	84.8	70 - 130
Benzene	10.0	9.87	98.7	70 - 130
Benzyl chloride	10.0	8.32	83.2	70 - 130
Bromodichloromethane	10.0	9.01	90.1	70 - 130
Bromoform	10.0	9.87	98.7	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.	SDG:	22F1004
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Matrix:	Air		
Batch:	BF21498	Laboratory ID:	BF21498-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	11.4	114	70 - 130
Carbon disulfide	10.0	10.4	104	70 - 130
Carbon tetrachloride	10.0	10.0	100	70 - 130
Chlorobenzene	10.0	9.04	90.4	70 - 130
Chloroethane	10.0	9.93	99.3	70 - 130
Chloroform	10.0	11.0	110	70 - 130
Chloromethane	10.0	8.27	82.7	70 - 130
cis-1,2-Dichloroethylene	10.0	9.15	91.5	70 - 130
cis-1,3-Dichloropropylene	10.0	8.75	87.5	70 - 130
Cyclohexane	10.0	9.42	94.2	70 - 130
Dibromochloromethane	10.0	10.2	102	70 - 130
Dichlorodifluoromethane	10.0	11.2	112	70 - 130
Ethyl acetate	10.0	8.77	87.7	70 - 130
Ethyl Benzene	10.0	9.19	91.9	70 - 130
Hexachlorobutadiene	10.0	6.23	62.3 *	70 - 130
Isopropanol	10.0	8.93	89.3	70 - 130
Methyl Methacrylate	10.0	8.27	82.7	70 - 130
Methyl tert-butyl ether (MTBE)	10.0	10.3	103	70 - 130
Methylene chloride	10.0	8.30	83.0	70 - 130
n-Heptane	10.0	8.58	85.8	70 - 130
n-Hexane	10.0	9.32	93.2	70 - 130
o-Xylene	10.0	9.26	92.6	70 - 130
p- & m- Xylenes	20.0	18.7	93.5	70 - 130
p-Ethyltoluene	10.0	9.15	91.5	70 - 130
Propylene	10.0	7.94	79.4	70 - 130
Styrene	10.0	8.84	88.4	70 - 130
Tetrachloroethylene	10.0	8.45	84.5	70 - 130
Tetrahydrofuran	10.0	8.35	83.5	70 - 130
Toluene	10.0	8.77	87.7	70 - 130
trans-1,2-Dichloroethylene	10.0	9.88	98.8	70 - 130

FORM VI **INITIAL CALIBRATION DATA (Continued)**

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. SDG: 22F1004

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Calibration: YD20018 Instrument: TO15_AIR2

Calibration Date: 04/19/22 22:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Carbon disulfide	3.255539	6.903854	9.33625	6.506453E-02			30	
Carbon tetrachloride	2.382535	8.868214	12.94933	5.208245E-02			30	
Chlorobenzene	1.052086	7.010271	18.87275	2.334866E-02			30	
Chloroethane	0.506012	5.264119	6.77975	0.1984605			30	
Chloroform	2.668734	8.02208	11.74725	7.008658E-02			30	
Chloromethane	0.5259801	13.78232	5.45325	0.2028036			30	
cis-1,2-Dichloroethylene	1.576247	12.11326	11.4747	7.087928E-02			30	
cis-1,3-Dichloropropylene	0.4575901	8.479898	15.6665	1.989716E-02			30	
Cyclohexane	1.625653	7.465707	12.65025	5.826469E-02			30	
Dibromochloromethane	0.5761676	15.29481	17.70325	1.921471E-02			30	
Dichlorodifluoromethane	3.200946	10.39896	4.96725	0.1882287			30	
Ethanol							30	
Ethyl acetate	1.994603	6.988111	11.39713	4.629581E-02			30	
Ethyl Benzene	1.603083	8.647667	18.97925	0.0255301			30	
Hexachlorobutadiene	0.6539784	15.252	27.20943	8.072138E-03			30	
Isopropanol	2.707315	55.16935	7.882875	0.1645517		0.999882	0.99	
Isopropylbenzene	1.793419	8.106145	20.55987	1.771929E-02			30	
Methyl Methacrylate	0.2877017	8.989548	14.43062	3.711034E-02			30	
Methyl tert-butyl ether (MTBE)	3.477153	7.260362	9.621125	6.637063E-02			30	
Methylene chloride	1.130144	21.85847	9.20875	0.1207584			30	
Naphthalene	2.302281	32.40631	27.324	1.406847E-02		0.9995157	0.99	
n-Butylbenzene	1.631939	9.284772	23.93113	1.055984E-02			30	
n-Heptane	1.595517	10.80162	13.17475	6.448263E-02			30	
n-Hexane	1.565854	7.02213	10.10287	7.638676E-02			30	
n-Propylbenzene	2.046093	7.358667	21.31875	2.267728E-02			30	
o-Xylene	1.265449	7.717153	19.9045	0.0200949			30	
p- & m- Xylenes	1.203784	11.61558	19.125	1.820726E-02			30	
p-Ethyltoluene	1.769097	5.460827	21.54	2.299606E-02			30	
p-Isopropyltoluene	1.840235	6.464565	23.12188	2.365521E-02			30	
Propylene	0.4830245	14.54994	4.893375	0.2201734			30	
sec-Butylbenzene	2.187856	7.075805	22.85425	2.336683E-02			30	
Styrene	1.018308	5.814062	19.92475	1.685623E-02			30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.	SDG:	22F1004
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Instrument ID:	TO15_AIR2	Calibration:	YD20018
Lab File ID:	TQ220717.D	Calibration Date:	04/19/22 22:46
Sequence:	Y2F2411	Injection Date:	06/22/22
Lab Sample ID:	Y2F2411-CCV1	Injection Time:	06:51

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	8.76	0.5225608	0.4575546		-12.4	30	
1,1,1-Trichloroethane	A	10.0	10.2	2.761948	2.810861		1.8	30	
1,1,2,2-Tetrachloroethane	A	10.0	8.04	0.8626136	0.6931939		-19.6	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.1	2.475865	2.506197		1.2	30	
1,1,2-Trichloroethane	A	10.0	8.43	0.3641926	0.3070471		-15.7	30	
1,1-Dichloroethane	A	10.0	9.10	2.022685	1.840634		-9.0	30	
1,1-Dichloroethylene	A	10.0	8.65	1.828947	1.581877		-13.5	30	
1,2,4-Trichlorobenzene	A	10.0	5.72	0.6607203	0.378042		-42.8	30	*
1,2,4-Trimethylbenzene	A	10.0	8.16	1.52027	1.24006		-18.4	30	
1,2-Dibromoethane	A	10.0	8.53	0.5731624	0.4887991		-14.7	30	
1,2-Dichlorobenzene	A	10.0	7.76	0.9529005	0.7392303		-22.4	30	
1,2-Dichloroethane	A	10.0	9.29	1.647525	1.5308		-7.1	30	
1,2-Dichloropropane	A	10.0	7.63	0.2644825	0.201719		-23.7	30	
1,2-Dichlorotetrafluoroethane	A	10.0	11.1	2.655057	2.938376		10.7	30	
1,3,5-Trimethylbenzene	A	10.0	8.18	1.491271	1.220093		-18.2	30	
1,3-Butadiene	A	10.0	7.24	0.4907221	0.3551287		-27.6	30	
1,3-Dichlorobenzene	A	10.0	7.97	0.9521438	0.7585303		-20.3	30	
1,3-Dichloropropane	A	10.0	8.06	0.500202	0.4030905		-19.4	30	
1,4-Dichlorobenzene	A	10.0	7.87	0.9541104	0.7512614		-21.3	30	
1,4-Dioxane	A	10.0	7.30	0.2366858	0.1727497		-27.0	30	
2-Butanone	A	10.0	7.76	1.877054	1.45608		-22.4	30	
2-Hexanone	A	10.0	5.62	0.5317352	0.2988719		-43.8	30	*
3-Chloropropene	A	10.0	7.77	1.090371	0.8474979		-22.3	30	
4-Methyl-2-pentanone	A	10.0	5.80	0.5611524	0.325421		-42.0	30	*
Acetone	A	10.0	7.02	1.624941	1.141238		-29.8	30	
Acrylonitrile	A	10.0	7.72	0.7267274	0.5606935		-22.8	30	
Benzene	A	10.0	9.12	3.988265	3.636066		-8.8	30	
Benzyl chloride	A	10.0	7.56	1.118416	0.8453578		-24.4	30	
Bromodichloromethane	A	10.0	8.36	0.5662355	0.4731749		-16.4	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.	SDG:	22F1004
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Instrument ID:	TO15_AIR2	Calibration:	YD20018
Lab File ID:	TQ220717.D	Calibration Date:	04/19/22 22:46
Sequence:	Y2F2411	Injection Date:	06/22/22
Lab Sample ID:	Y2F2411-CCV1	Injection Time:	06:51

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	9.08	0.5589733	0.5073656		-9.2	30	
Bromomethane	A	10.0	10.2	1.07543	1.094078		1.7	30	
Carbon disulfide	A	10.0	9.49	3.255539	3.089899		-5.1	30	
Carbon tetrachloride	A	10.0	9.51	2.382535	2.301725		-3.4	30	
Chlorobenzene	A	10.0	8.36	1.052086	0.880038		-16.4	30	
Chloroethane	A	10.0	9.02	0.506012	0.4564789		-9.8	30	
Chloroform	A	10.0	9.87	2.668734	2.634392		-1.3	30	
Chloromethane	A	10.0	7.32	0.5259801	0.385212		-26.8	30	
cis-1,2-Dichloroethylene	A	10.0	8.64	1.576247	1.361592		-13.6	30	
cis-1,3-Dichloropropylene	A	10.0	8.16	0.4575901	0.3733286		-18.4	30	
Cyclohexane	A	10.0	8.81	1.625653	1.432123		-11.9	30	
Dibromochloromethane	A	10.0	9.38	0.5761676	0.5407028		-6.2	30	
Dichlorodifluoromethane	A	10.0	10.0	3.200946	3.212941		0.4	30	
Ethyl acetate	A	10.0	8.18	1.994603	1.631095		-18.2	30	
Ethyl Benzene	A	10.0	8.50	1.603083	1.36254		-15.0	30	
Hexachlorobutadiene	A	10.0	5.99	0.6539784	0.3809212		-41.8	30	*
Isopropanol	Q	10.0	8.41	2.707315	1.482894		-15.9	30	
Methyl Methacrylate	A	10.0	7.75	0.2877017	0.2228967		-22.5	30	
Methyl tert-butyl ether (MTBE)	A	10.0	9.47	3.477153	3.2913		-5.3	30	
Methylene chloride	A	10.0	7.65	1.130144	0.8651118		-23.5	30	
n-Heptane	A	10.0	8.23	1.595517	1.313021		-17.7	30	
n-Hexane	A	10.0	8.77	1.565854	1.373648		-12.3	30	
o-Xylene	A	10.0	8.47	1.265449	1.071284		-15.3	30	
p- & m- Xylenes	A	20.0	17.1	1.203784	1.031113		-14.3	30	
p-Ethyltoluene	A	10.0	8.39	1.769097	1.483905		-16.1	30	
Propylene	A	10.0	7.77	0.4830245	0.3755248		-22.3	30	
Styrene	A	10.0	8.17	1.018308	0.8319181		-18.3	30	
Tetrachloroethylene	A	10.0	7.93	0.5641022	0.4474602		-20.7	30	
Tetrahydrofuran	A	10.0	7.96	1.030652	0.8201629		-20.4	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.	SDG:	22F1004
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Instrument ID:	TO15_AIR2	Calibration:	YD20018
Lab File ID:	TQ220732.D	Calibration Date:	04/19/22 22:46
Sequence:	Y2F2413	Injection Date:	06/23/22
Lab Sample ID:	Y2F2413-CCV1	Injection Time:	03:41

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	9.72	0.5225608	0.5079412		-2.8	30
1,1,1-Trichloroethane	A	10.0	11.7	2.761948	3.2286		16.9	30
1,1,2,2-Tetrachloroethane	A	10.0	8.65	0.8626136	0.7462734		-13.5	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	11.7	2.475865	2.890816		16.8	30
1,1,2-Trichloroethane	A	10.0	9.17	0.3641926	0.3340704		-8.3	30
1,1-Dichloroethane	A	10.0	10.2	2.022685	2.062586		2.0	30
1,1-Dichloroethylene	A	10.0	9.81	1.828947	1.794147		-1.9	30
1,2,4-Trichlorobenzene	A	10.0	6.39	0.6607203	0.4221041		-36.1	30 *
1,2,4-Trimethylbenzene	A	10.0	8.69	1.52027	1.321068		-13.1	30
1,2-Dibromoethane	A	10.0	9.24	0.5731624	0.5298719		-7.6	30
1,2-Dichlorobenzene	A	10.0	8.17	0.9529005	0.7782002		-18.3	30
1,2-Dichloroethane	A	10.0	10.8	1.647525	1.772224		7.6	30
1,2-Dichloropropane	A	10.0	8.09	0.2644825	0.2139312		-19.1	30
1,2-Dichlorotetrafluoroethane	A	10.0	11.4	2.655057	3.022934		13.9	30
1,3,5-Trimethylbenzene	A	10.0	8.99	1.491271	1.340846		-10.1	30
1,3-Butadiene	A	10.0	8.23	0.4907221	0.4040612		-17.7	30
1,3-Dichlorobenzene	A	10.0	8.33	0.9521438	0.7929265		-16.7	30
1,3-Dichloropropane	A	10.0	8.75	0.500202	0.4377096		-12.5	30
1,4-Dichlorobenzene	A	10.0	8.21	0.9541104	0.7832056		-17.9	30
1,4-Dioxane	A	10.0	7.58	0.2366858	0.1793665		-24.2	30
2-Butanone	A	10.0	8.50	1.877054	1.595461		-15.0	30
2-Hexanone	A	10.0	5.75	0.5317352	0.3058063		-42.5	30 *
3-Chloropropene	A	10.0	8.41	1.090371	0.9165837		-15.9	30
4-Methyl-2-pentanone	A	10.0	6.04	0.5611524	0.338866		-39.6	30 *
Acetone	A	10.0	8.09	1.624941	1.313952		-19.1	30
Acrylonitrile	A	10.0	8.60	0.7267274	0.6249856		-14.0	30
Benzene	A	10.0	10.0	3.988265	4.007355		0.5	30
Benzyl chloride	A	10.0	8.09	1.118416	0.9049434		-19.1	30
Bromodichloromethane	A	10.0	9.25	0.5662355	0.5234904		-7.5	30

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc.	SDG:	22F1004
Client:	Advanced Cleanup Technologies, Inc.	Project:	9628-BXNY
Instrument ID:	TO15_AIR2	Calibration:	YD20018
Lab File ID:	TQ220732.D	Calibration Date:	04/19/22 22:46
Sequence:	Y2F2413	Injection Date:	06/23/22
Lab Sample ID:	Y2F2413-CCV1	Injection Time:	03:41

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	9.91	0.5589733	0.55404		-0.9	30	
Bromomethane	A	10.0	11.8	1.07543	1.267357		17.8	30	
Carbon disulfide	A	10.0	10.6	3.255539	3.468478		6.5	30	
Carbon tetrachloride	A	10.0	10.4	2.382535	2.52275		5.9	30	
Chlorobenzene	A	10.0	9.18	1.052086	0.9659292		-8.2	30	
Chloroethane	A	10.0	10.4	0.506012	0.523877		3.5	30	
Chloroform	A	10.0	11.2	2.668734	2.998605		12.4	30	
Chloromethane	A	10.0	8.22	0.5259801	0.4325853		-17.8	30	
cis-1,2-Dichloroethylene	A	10.0	9.60	1.576247	1.513359		-4.0	30	
cis-1,3-Dichloropropylene	A	10.0	8.93	0.4575901	0.4084585		-10.7	30	
Cyclohexane	A	10.0	9.51	1.625653	1.546279		-4.9	30	
Dibromochloromethane	A	10.0	10.4	0.5761676	0.5974072		3.7	30	
Dichlorodifluoromethane	A	10.0	11.5	3.200946	3.676141		14.8	30	
Ethyl acetate	A	10.0	8.97	1.994603	1.789026		-10.3	30	
Ethyl Benzene	A	10.0	9.31	1.603083	1.491957		-6.9	30	
Hexachlorobutadiene	A	10.0	6.24	0.6539784	0.3970507		-39.3	30	*
Isopropanol	Q	10.0	9.12	2.707315	1.60133		-8.8	30	
Methyl Methacrylate	A	10.0	8.32	0.2877017	0.2393558		-16.8	30	
Methyl tert-butyl ether (MTBE)	A	10.0	10.6	3.477153	3.675739		5.7	30	
Methylene chloride	A	10.0	8.49	1.130144	0.9598998		-15.1	30	
n-Heptane	A	10.0	8.72	1.595517	1.391757		-12.8	30	
n-Hexane	A	10.0	9.58	1.565854	1.500119		-4.2	30	
o-Xylene	A	10.0	9.38	1.265449	1.18645		-6.2	30	
p- & m- Xylenes	A	20.0	18.9	1.203784	1.136696		-5.6	30	
p-Ethyltoluene	A	10.0	9.03	1.769097	1.597231		-9.7	30	
Propylene	A	10.0	7.97	0.4830245	0.3849322		-20.3	30	
Styrene	A	10.0	8.89	1.018308	0.9051465		-11.1	30	
Tetrachloroethylene	A	10.0	8.51	0.5641022	0.4803092		-14.9	30	
Tetrahydrofuran	A	10.0	8.53	1.030652	0.8793586		-14.7	30	

ATTACHMENT D

ANNOTATED SUMMARY FORMS

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-15

Laboratory: York Analytical Laboratories, Inc. SDG: 22F1004

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 22F1004-01 File ID: TQ220742.D

Sampled: 06/16/22 13:00 Prepared: 06/23/22 02:00 Analyzed: 06/23/22 14:19

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BF21498 Sequence: Y2F2413 Calibration: YD20018 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.93	1.3	U
71-55-6	1,1,1-Trichloroethane	1.93	1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.93	1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.93	1.5	U
79-00-5	1,1,2-Trichloroethane	1.93	1.1	U
75-34-3	1,1-Dichloroethane	1.93	0.78	U
75-35-4	1,1-Dichloroethylene	1.93	0.19	U
120-82-1	1,2,4-Trichlorobenzene	1.93	1.4	UJ
95-63-6	1,2,4-Trimethylbenzene	1.93	45	
106-93-4	1,2-Dibromoethane	1.93	1.5	U
95-50-1	1,2-Dichlorobenzene	1.93	1.2	U
107-06-2	1,2-Dichloroethane	1.93	0.78	U
78-87-5	1,2-Dichloropropane	1.93	0.89	U
76-14-2	1,2-Dichlorotetrafluoroethane	1.93	1.4	U
108-67-8	1,3,5-Trimethylbenzene	1.93	57	
106-99-0	1,3-Butadiene	1.93	1.3	U
541-73-1	1,3-Dichlorobenzene	1.93	1.2	U
142-28-9	1,3-Dichloropropane	1.93	0.89	U
106-46-7	1,4-Dichlorobenzene	1.93	1.2	U
123-91-1	1,4-Dioxane	1.93	1.4	U
78-93-3	2-Butanone	1.93	3.6	
591-78-6	2-Hexanone	1.93	1.6	UJ
107-05-1	3-Chloropropene	1.93	3.0	U
108-10-1	4-Methyl-2-pentanone	1.93	0.79	UJ
67-64-1	Acetone	1.93	23	
107-13-1	Acrylonitrile	1.93	0.42	U
71-43-2	Benzene	1.93	2.4	
100-44-7	Benzyl chloride	1.93	1.0	U
75-27-4	Bromodichloromethane	1.93	1.3	U
75-25-2	Bromoform	1.93	2.0	U
74-83-9	Bromomethane	1.93	0.75	U
75-15-0	Carbon disulfide	1.93	0.60	U
56-23-5	Carbon tetrachloride	1.93	0.36	
108-90-7	Chlorobenzene	1.93	0.89	U
75-00-3	Chloroethane	1.93	0.51	U
67-66-3	Chloroform	1.93	9.2	
74-87-3	Chloromethane	1.93	0.40	U
156-59-2	cis-1,2-Dichloroethylene	1.93	0.19	U
10061-01-5	cis-1,3-Dichloropropylene	1.93	0.88	U
110-82-7	Cyclohexane	1.93	2.7	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

SS-15

Laboratory: York Analytical Laboratories, Inc. SDG: 22F1004

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Soil Vapor Laboratory ID: 22F1004-01 File ID: TQ220742.D

Sampled: 06/16/22 13:00 Prepared: 06/23/22 02:00 Analyzed: 06/23/22 14:19

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BF21498 Sequence: Y2F2413 Calibration: YD20018 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	1.93	1.6	U
75-71-8	Dichlorodifluoromethane	1.93	3.1	
141-78-6	Ethyl acetate	1.93	1.4	U
100-41-4	Ethyl Benzene	1.93	17	
87-68-3	Hexachlorobutadiene	1.93	2.1	UJ
67-63-0	Isopropanol	1.93	1.4	J-
80-62-6	Methyl Methacrylate	1.93	0.79	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1.93	2.0	
75-09-2	Methylene chloride	1.93	8.7	
142-82-5	n-Heptane	1.93	7.1	
110-54-3	n-Hexane	1.93	4.9	
95-47-6	o-Xylene	1.93	60	
179601-23-1	p- & m- Xylenes	1.93	45	
622-96-8	p-Ethyltoluene	1.93	39	
115-07-1	Propylene	1.93	8.8	
100-42-5	Styrene	1.93	0.82	U
127-18-4	Tetrachloroethylene	1.93	12	
109-99-9	Tetrahydrofuran	1.93	1.1	U
108-88-3	Toluene	1.93	11	
156-60-5	trans-1,2-Dichloroethylene	1.93	0.77	U
10061-02-6	trans-1,3-Dichloropropylene	1.93	0.88	U
79-01-6	Trichloroethylene	1.93	0.26	U
75-69-4	Trichlorofluoromethane (Freon 11)	1.93	1.7	
108-05-4	Vinyl acetate	1.93	0.68	U
593-60-2	Vinyl bromide	1.93	0.85	U
75-01-4	Vinyl Chloride	1.93	0.25	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Difluorobenzene	2361202	13.561	3144562	13.564	
ISTD: d5-Chlorobenzene	2275650	18.821	2743461	18.824	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

OA-3

Laboratory: York Analytical Laboratories, Inc. SDG: 22F1004

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Outdoor Ambient Air Laboratory ID: 22F1004-02 File ID: TQ220721.D

Sampled: 06/17/22 15:00 Prepared: 06/22/22 03:00 Analyzed: 06/22/22 11:04

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BF21412 Sequence: Y2F2411 Calibration: YD20018 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.17	0.80	U
71-55-6	1,1,1-Trichloroethane	1.17	0.64	U
79-34-5	1,1,2,2-Tetrachloroethane	1.17	0.80	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.17	0.89	U
79-00-5	1,1,2-Trichloroethane	1.17	0.64	U
75-34-3	1,1-Dichloroethane	1.17	0.47	U
75-35-4	1,1-Dichloroethylene	1.17	0.12	U
120-82-1	1,2,4-Trichlorobenzene	1.17	0.87	UJ
95-63-6	1,2,4-Trimethylbenzene	1.17	0.57	U
106-93-4	1,2-Dibromoethane	1.17	0.90	U
95-50-1	1,2-Dichlorobenzene	1.17	0.70	U
107-06-2	1,2-Dichloroethane	1.17	0.47	U
78-87-5	1,2-Dichloropropane	1.17	0.54	U
76-14-2	1,2-Dichlorotetrafluoroethane	1.17	0.82	U
108-67-8	1,3,5-Trimethylbenzene	1.17	0.57	U
106-99-0	1,3-Butadiene	1.17	0.77	U
541-73-1	1,3-Dichlorobenzene	1.17	0.70	U
142-28-9	1,3-Dichloropropane	1.17	0.54	U
106-46-7	1,4-Dichlorobenzene	1.17	0.70	U
123-91-1	1,4-Dioxane	1.17	0.84	U
78-93-3	2-Butanone	1.17	0.69	
591-78-6	2-Hexanone	1.17	0.96	UJ
107-05-1	3-Chloropropene	1.17	1.8	U
108-10-1	4-Methyl-2-pentanone	1.17	0.48	UJ
67-64-1	Acetone	1.17	7.2	
107-13-1	Acrylonitrile	1.17	0.25	U
71-43-2	Benzene	1.17	0.56	
100-44-7	Benzyl chloride	1.17	0.60	U
75-27-4	Bromodichloromethane	1.17	0.78	U
75-25-2	Bromoform	1.17	1.2	U
74-83-9	Bromomethane	1.17	0.45	U
75-15-0	Carbon disulfide	1.17	0.36	U
56-23-5	Carbon tetrachloride	1.17	0.37	
108-90-7	Chlorobenzene	1.17	0.54	U
75-00-3	Chloroethane	1.17	0.31	U
67-66-3	Chloroform	1.17	0.57	U
74-87-3	Chloromethane	1.17	1.3	
156-59-2	cis-1,2-Dichloroethylene	1.17	0.12	U
10061-01-5	cis-1,3-Dichloropropylene	1.17	0.53	U
110-82-7	Cyclohexane	1.17	0.40	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

OA-3

Laboratory: York Analytical Laboratories, Inc. SDG: 22F1004

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Outdoor Ambient Air Laboratory ID: 22F1004-02 File ID: TQ220721.D

Sampled: 06/17/22 15:00 Prepared: 06/22/22 03:00 Analyzed: 06/22/22 11:04

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BF21412 Sequence: Y2F2411 Calibration: YD20018 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
124-48-1	Dibromochloromethane	1.17	0.99	U
75-71-8	Dichlorodifluoromethane	1.17	2.8	
141-78-6	Ethyl acetate	1.17	0.97	
100-41-4	Ethyl Benzene	1.17	0.51	U
87-68-3	Hexachlorobutadiene	1.17	1.2	UJ
67-63-0	Isopropanol	1.17	1.8	J-
80-62-6	Methyl Methacrylate	1.17	0.48	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1.17	0.42	U
75-09-2	Methylene chloride	1.17	0.81	U
142-82-5	n-Heptane	1.17	0.48	U
110-54-3	n-Hexane	1.17	0.45	
95-47-6	o-Xylene	1.17	0.51	
179601-23-1	p- & m- Xylenes	1.17	1.4	
622-96-8	p-Ethyltoluene	1.17	0.57	U
115-07-1	Propylene	1.17	0.20	U
100-42-5	Styrene	1.17	0.50	U
127-18-4	Tetrachloroethylene	1.17	0.79	U
109-99-9	Tetrahydrofuran	1.17	0.69	U
108-88-3	Toluene	1.17	1.7	
156-60-5	trans-1,2-Dichloroethylene	1.17	0.46	U
10061-02-6	trans-1,3-Dichloropropylene	1.17	0.53	U
79-01-6	Trichloroethylene	1.17	0.16	U
75-69-4	Trichlorofluoromethane (Freon 11)	1.17	1.6	
108-05-4	Vinyl acetate	1.17	0.41	U
593-60-2	Vinyl bromide	1.17	0.51	U
75-01-4	Vinyl Chloride	1.17	0.15	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	505547	11.972	679348	11.979	
ISTD: 1,4-Difluorobenzene	2839122	13.551	3753147	13.558	
ISTD: d5-Chlorobenzene	2436942	18.824	3277670	18.824	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

IA-14

Laboratory: York Analytical Laboratories, Inc. SDG: 22F1004

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Indoor Ambient Air Laboratory ID: 22F1004-03 File ID: TQ220723.D

Sampled: 06/17/22 15:00 Prepared: 06/22/22 03:00 Analyzed: 06/22/22 13:23

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BF21412 Sequence: Y2F2411 Calibration: YD20018 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.1	0.75	U
71-55-6	1,1,1-Trichloroethane	1.1	0.60	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	0.75	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.1	0.84	U
79-00-5	1,1,2-Trichloroethane	1.1	0.60	U
75-34-3	1,1-Dichloroethane	1.1	0.44	U
75-35-4	1,1-Dichloroethylene	1.1	0.11	U
120-82-1	1,2,4-Trichlorobenzene	1.1	0.81	U
95-63-6	1,2,4-Trimethylbenzene	1.1	7.5	
106-93-4	1,2-Dibromoethane	1.1	0.84	U
95-50-1	1,2-Dichlorobenzene	1.1	0.66	U
107-06-2	1,2-Dichloroethane	1.1	0.44	U
78-87-5	1,2-Dichloropropane	1.1	0.51	U
76-14-2	1,2-Dichlorotetrafluoroethane	1.1	0.77	U
108-67-8	1,3,5-Trimethylbenzene	1.1	2.3	
106-99-0	1,3-Butadiene	1.1	0.73	U
541-73-1	1,3-Dichlorobenzene	1.1	0.66	U
142-28-9	1,3-Dichloropropane	1.1	0.51	U
106-46-7	1,4-Dichlorobenzene	1.1	1.2	
123-91-1	1,4-Dioxane	1.1	0.79	U
78-93-3	2-Butanone	1.1	2.3	
591-78-6	2-Hexanone	1.1	0.90	U
107-05-1	3-Chloropropene	1.1	1.7	U
108-10-1	4-Methyl-2-pentanone	1.1	0.45	U
107-13-1	Acrylonitrile	1.1	0.24	U
71-43-2	Benzene	1.1	0.63	
100-44-7	Benzyl chloride	1.1	0.57	U
75-27-4	Bromodichloromethane	1.1	0.73	U
75-25-2	Bromoform	1.1	1.1	U
74-83-9	Bromomethane	1.1	0.43	U
75-15-0	Carbon disulfide	1.1	0.34	U
56-23-5	Carbon tetrachloride	1.1	0.28	
108-90-7	Chlorobenzene	1.1	0.50	U
75-00-3	Chloroethane	1.1	0.29	U
67-66-3	Chloroform	1.1	0.53	U
74-87-3	Chloromethane	1.1	1.2	
156-59-2	cis-1,2-Dichloroethylene	1.1	0.11	U
10061-01-5	cis-1,3-Dichloropropylene	1.1	0.50	U
110-82-7	Cyclohexane	1.1	0.41	
124-48-1	Dibromochloromethane	1.1	0.93	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

IA-14

Laboratory: York Analytical Laboratories, Inc. SDG: 22F1004

Client: Advanced Cleanup Technologies, Inc. Project: 9628-BXNY

Matrix: Indoor Ambient Air Laboratory ID: 22F1004-03 File ID: TQ220723.D

Sampled: 06/17/22 15:00 Prepared: 06/22/22 03:00 Analyzed: 06/22/22 13:23

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BF21412 Sequence: Y2F2411 Calibration: YD20018 Instrument: TO15_AIR2

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
75-71-8	Dichlorodifluoromethane	1.1	2.5	
141-78-6	Ethyl acetate	1.1	2.7	
100-41-4	Ethyl Benzene	1.1	83	
87-68-3	Hexachlorobutadiene	1.1	1.2	U
67-63-0	Isopropanol	1.1	23	
80-62-6	Methyl Methacrylate	1.1	6.2	
1634-04-4	Methyl tert-butyl ether (MTBE)	1.1	0.39	U
75-09-2	Methylene chloride	1.1	0.76	U
142-82-5	n-Heptane	1.1	1.3	
110-54-3	n-Hexane	1.1	1.1	
95-47-6	o-Xylene	1.1	75	
179601-23-1	p- & m- Xylenes	1.1	280	
622-96-8	p-Ethyltoluene	1.1	7.5	
115-07-1	Propylene	1.1	0.19	U
100-42-5	Styrene	1.1	0.47	U
127-18-4	Tetrachloroethylene	1.1	0.74	U
109-99-9	Tetrahydrofuran	1.1	0.65	U
108-88-3	Toluene	1.1	2.3	
156-60-5	trans-1,2-Dichloroethylene	1.1	0.43	U
10061-02-6	trans-1,3-Dichloropropylene	1.1	0.50	U
79-01-6	Trichloroethylene	1.1	0.15	U
75-69-4	Trichlorofluoromethane (Freon 11)	1.1	1.4	
108-05-4	Vinyl acetate	1.1	0.39	U
593-60-2	Vinyl bromide	1.1	0.48	U
75-01-4	Vinyl Chloride	1.1	0.14	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	496456	12.005	679348	11.979	
ISTD: 1,4-Difluorobenzene	2652947	13.574	3753147	13.558	
ISTD: d5-Chlorobenzene	2473014	18.824	3277670	18.824	

* Values outside of QC limits

JR 12/8/2025

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

IA-14

Laboratory:	York Analytical Laboratories, Inc.			SDG:	22F1004
Client:	Advanced Cleanup Technologies, Inc.			Project:	9628-BXNY
Matrix:	Indoor Ambient Air	Laboratory ID:	22F1004-03RE1	File ID:	TQ220737.D
Sampled:	06/17/22 15:00	Prepared:	06/23/22 02:00	Analyzed:	06/23/22 09:05
Solids:		Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Batch:	BF21498	Sequence:	Y2F2413	Calibration:	YD20018
Instrument:	TO15_AIR2				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q
67-64-1	Acetone	41.1	3300	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	391726	11.979	554760	11.985	
ISTD: 1,4-Difluorobenzene	2170457	13.558	3144562	13.564	
ISTD: d5-Chlorobenzene	1751490	18.821	2743461	18.824	

* Values outside of QC limits

JR 12/8/2025

December 8, 2025

Mr. Jason Stewart
Advanced Cleanup Technologies
228 Park Ave S PMB 34864
New York, New York 10003

Re: Data Usability Summary Report – Phoenix Environmental Laboratories, Inc. - GCL97021 V1

Dear Mr. Stewart:

The evaluation of analytical data by Phoenix Environmental Laboratories for project 9268-BXNY, which were reported in a single data package under Job No. GCL97021 V1 has been completed. The following samples were reported.

IA-4 IA-7

Analysis was performed in accordance with EPA Method TO-15 (volatile organics). The review was performed to the extent possible, in accordance with the analytical method, and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. National Functional Guidelines for Organic Data Review was consulted as needed. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	No – see Documentation Section
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result. Where a sample result is rejected (R), the 'R' qualifier takes precedence over any other qualification.

- The non-detect results for benzyl chloride, n-butylbenzene, 1,2,4-trichlorobenzene and hexachlorobutadiene in IA-4 and IA-7 are rejected (R) due to unacceptable initial calibration.

- The results for ethanol, 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene and hexachlorobutadiene in IA-4 and IA-7 are qualified as estimated (J) due to unacceptable recovery in the second source initial calibration verification (ICV) standard.

- The results for chloromethane, ethanol and acetone in IA-1 and IA-7 are qualified as estimated (J+) due to high recovery in the LCS.

- The results for cyclohexane in IA-4 and IA-7 are qualified as not detected (U) at the reported value due to poor spectral match.

- The results for ethanol in IA-4 and acetone in IA-7 are qualified as estimated (J) because the reported concentration is outside the calibration range.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C. Annotated Summary Forms are included in Attachment D detailing qualifications resulting from the data review effort.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation

- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
    - Method, instrument blanks
    - Clean canister certification
    - Field blanks
    - Surrogate recoveries
    - LCS recoveries
    - Internal standard area response
    - Duplicates
    - Analyte Identification
- Instrument related quality control data:
    - Instrument tunes
    - Calibration summaries

The following sections of the report detail only quality control exceedances that impacted results. Where a quality control item exceeded control limits but there is no impact to the samples results, these are not detailed in the report.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package with the following exceptions:

- The data package does not include summary forms and raw data for the second source initial calibration verification (ICV) standard. The laboratory was contacted and provided the ICV data and is included in attachment C.

- Calibration data for the clean canister certification analysis is not included in the data package.

The following documentation issues were observed during the review:

- Improper edits were observed on the chain of custody records. When edits are made, a single line should be drawn through the error, then dated and initialed by the person making the edits.
- Results for ethanol, acetone, isopropyl alcohol, and hexane in IA-4 and IA-7 are flagged 'S' which the data deliverable identifies this flag as 'This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.' However, all sample detections are greater than five times the reporting limit. The validator removed the 'S' qualifier.
- The data package documents a sample collection date of August 2, 2022; however, the samples were collected on August 1, 2022.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of August 1, 2022. The samples were received on August 3, 2022. Samples were received intact and were analyzed within the method specified hold time.

A. Volatile Organics

1. Calibration

One initial calibration (IC) was performed in support of the sample analysis. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients are acceptable with the exceptions noted below.

Analyte	**RSD**
Benzyl chloride (SIM)	167
n-Butylbenzene (SIM)	129
1,2,4-Trichlorobenzene (SIM)	173
Hexachlorobutadiene (SIM)	167

The laboratory applied quadratic equations to achieve an acceptable correlation coefficient of 1.00. However, a review of the individual calibration levels indicates a lack of instrument sensitivity in the lower calibration standards as presented below.

Analyte	**RRF 0.01**	**RRF 0.02**	**RRF 0.035**	**RRF 0.05**	**RRF 0.1**	**RRF 0.2**	**RRF 0.5**	**RRF 1.0**	**RRF 2.5**	**RRF 5.0**
Benzyl chloride (SIM)	**0.012**	**0.017**	**0.028**	**0.050**	0.111	0.169	0.462	1.088	2.477	-
n-Butylbenzene (SIM)	**-**	**-**	**-**	**0.034**	0.114	0.192	0.479	1.044	2.487	-
1,2,4-Trichlorobenzene (SIM)	**0.036**	**0.037**	**0.038**	**0.040**	0.098	0.164	0.393	1.216	2.348	5.045
Hexachlorobutadiene (SIM)	**0.016**	**0.022**	**0.032**	**0.042**	0.116	0.200	0.483	1.002	2.502	-

Removing the standards with low responses (bolded above) still produces an RSD >30% as follows:

Benzyl chloride (SIM) -114 RSD
n-Butylbenzene (SIM) -113 RSD
1,2,4-Trichlorobenzene (SIM) – 124 RSD
Hexachlorobutadiene (SIM) – 114RSD

Based on professional judgment the non-detect results for benzyl chloride, n-butylbenzene, 1,2,4-trichlorobenzene and hexachlorobutadiene in IA-4 and IA-7 are rejected (R) due to unacceptable initial calibration.

A second source ICV standard was analyzed after the IC, and all percent differences are acceptable (70-130%R), with the following exceptions.

Analyte	%R	Associated Sample	Qualifier Applied
ICV CHEM20 7/20/2022 12:30			
Ethanol	174	IA-4 IA7	J, UJ
1,3-Dichlorobenzene (SIM)	136*		
1,2-Dichlorobenzene (SIM)	139*		
1,2,4-Trichlorobenzene (SIM)	160*		
Hexachlorobutadiene (SIM)	NR*		

NR=not reported

*The summary form provided by the laboratory reports ICV recoveries based on the full scan analysis. The validator reviewed the raw data to determine the recovery in the SIM analysis and this recovery is presented above.

The results for ethanol, 1,3-dichlorobenzene, 1,2-dichlorobenzene, 1,2,4-trichlorobenzene and hexachlorobutadiene in IA-4 and IA-7 are qualified as estimated (UJ) due to unacceptable recovery in the ICV.

2. Laboratory Control Sample (LCS)

One LCS was prepared and analyzed with the sample. The LCS is evaluated using control limit of 70-130%R. All recoveries are acceptable, with the following exceptions:

Analyte	LCS %R	Affected Sample	Qualifier Applied
Chloromethane	134	IA-4 IA-7	J+
Ethanol	149		
Acetone	132		

The results for chloromethane, ethanol and acetone in IA-1 and IA-7 are qualified as estimated (J+) due to high recovery in the LCS.

3. Compound Identification

The results for cyclohexane in IA-4 and IA-7 are qualified as not detected (U) at the reported value due to poor spectral match.

4. Compound Quantitation

The results for ethanol in IA-4 and acetone in IA-7 are qualified as estimated (J) because the reported concentration is outside the calibration range. Results from the diluted analysis should be used.

5. Clean Canister Certification

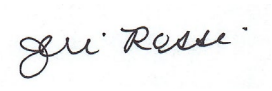
Ethanol is detected in one of the clean canister certification batches as presented below.

Batch Canister	**Analyte**	**Conc. (ppbv)**
Batch #259	Ethanol	0.739

The data package does not indicate which canisters are associated with which batch canister certification data. Since the concentration of ethanol in all samples is more than ten times the concentration in the clean canister certification no action is warranted.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,



Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

ACT

CHAIN OF CUSTODY RECORD
AIR ANALYSES
860-645-1102
email: greg@phoenixlabs.com

P.O. #

Data Delivery:
☐ Fax #:
☐ Email:
☐ Phone #:

Report to:	jason Stewart	Project Name:	9268 - BxNY	Data Format: (Circle) Equis Excel Other:	
Customer:	Advanced Cleanup Technologies, Inc.	Invoice to:	Karen Friedman	Requested Deliverable: RCP ASP CAT B	
Address:	228 Park Ave S PMB 34864			MCP NJ Deliverables	
13763	New York, New York 10003	Sampled by:	Yisong Yang / Ray Buzeta	Quote Number:	

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
97621	IA-4	28560	6.0L	-30	[illegible]	5043	3.6	15:00 8/1/22	11:05 8/2/22	8/1/22	-30	-8	✓			✓	
		23338	6.0L	-30		5042	3.6										
97622	IA-7	23330	6.0L	-30	[illegible] -5	5000	3.8	15:00 8/1/22	10:22 8/2/22	8/1/22	-30	-6	✓			✓	

Relinquished by:	Accepted by:	Date:	Time:	
ACT [signature] 8/2/22 13:15	[signature]	8.3.22	10:34	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:
	[signature]	8/3/22	1750	Signature: Date:

State Where Samples Collected:

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Can # 23338 (3) - 6.0L 24 hr
returned unused

Turnaround Time:
- 1 Day ☐
- 2 Day ☐
- 3 Day ☐
- 4 Day ☐
- 5 Day ☐

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air:	Indoor Air:	Vapor Intrusion	Indoor Air	Indoor Air
TAC RES	Residential	Residential		Residential	Residential
SVVC I/C	Ind/Commercial	Ind/Commercial			Industrial
SVVC RES	Soil Gas:	Soil Gas:		Non-residential	Sub-slab
GWV I/C	Residential	Residential			Residential
GWV CES	Ind/Commercial	Ind/Commercial			Industrial

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCL97021

LCS - Client Id: CL97022 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		9.838	98	70	130
Dichlorodifluoromethane	10		10.74	107	70	130
Chloromethane	10		13.42	134 *	70	130
1,2-Dichlorotetrafluoroethane	10		10.73	107	70	130
Vinyl Chloride	10		10.76	108	70	130
1,3-Butadiene	10		11.96	120	70	130
Bromomethane	10		9.751	98	70	130
Chloroethane	10		9.310	93	70	130
Ethanol	10		14.93	149 *	70	130
Acetone	10		13.17	132 *	70	130
Trichlorofluoromethane	10		10.69	107	70	130
Isopropylalcohol	10		13.04	130	70	130
Acrylonitrile	10		12.93	129	70	130
1,1-Dichloroethene	10		11.03	110	70	130
Methylene Chloride	10		12.51	125	70	130
Carbon Disulfide	10		10.54	105	70	130
Trichlorotrifluoroethane	10		10.75	108	70	130
Trans-1,2-Dichloroethene	10		10.80	108	70	130
1,1-Dichloroethane	10		10.62	106	70	130
Methyl tert-butyl ether(MTBE)	10		9.709	97	70	130
Methyl Ethyl Ketone	10		12.90	129	70	130
Cis-1,2-Dichloroethene	10		11.69	117	70	130
Hexane	10		11.06	111	70	130
Chloroform	10		10.20	102	70	130
Ethyl acetate	10		9.384	94	70	130
Tetrahydrofuran	10		12.76	128	70	130
1,2-Dichloroethane	10		10.95	110	70	130
1,1,1-Trichloroethane	10		10.36	104	70	130
Benzene	10		9.791	98	70	130
Carbon Tetrachloride	10		11.21	112	70	130
Cyclohexane	10		9.883	99	70	130
1,2-dichloropropane	10		10.35	104	70	130
Bromodichloromethane	10		11.14	111	70	130
Trichloroethene	10		10.20	102	70	130
1,4-Dioxane	10		9.620	96	70	130
Heptane	10		12.61	126	70	130
cis-1,3-Dichloropropene	10		10.24	102	70	130
4-Methyl-2-pentanone(MIBK)	10		12.75	128	70	130
trans-1,3-Dichloropropene	10		10.22	102	70	130
1,1,2-Trichloroethane	10		10.04	100	70	130
Toluene	10		10.00	100	70	130
Dibromochloromethane	10		10.98	110	70	130
2-Hexanone(MBK)	10		12.78	128	70	130
1,2-Dibromoethane(EDB)	10		10.16	102	70	130

FORM III AIR

AIR LCS RECOVERY

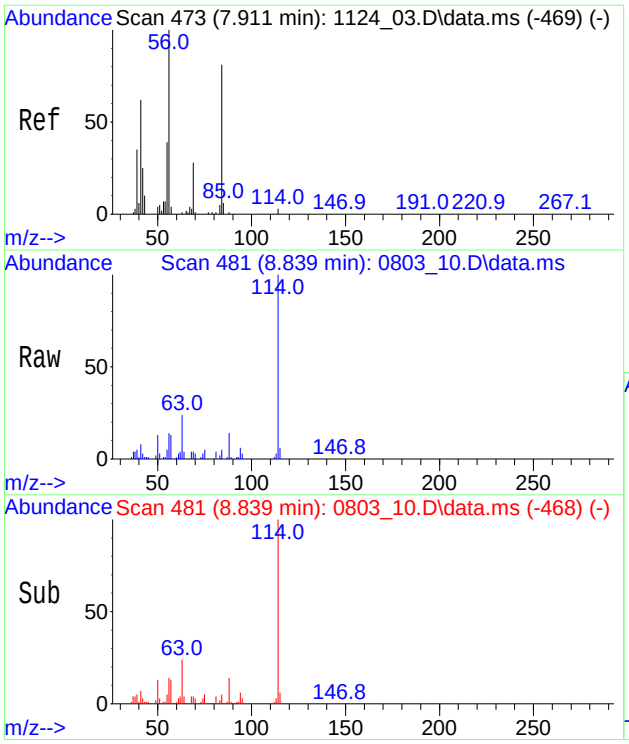
Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCL97021

LCS - Client Id: CL97022 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Tetrachloroethene	10		9.889	99	70	130
1,1,1,2-Tetrachloroethane	10		11.31	113	70	130
Chlorobenzene	10		9.603	96	70	130
Ethylbenzene	10		9.173	92	70	130
m,p-Xylene	20		19.08	95	70	130
Bromoform	10		11.23	112	70	130
Styrene	10		9.587	96	70	130
1,1,2,2-Tetrachloroethane	10		9.730	97	70	130
o-Xylene	10		9.417	94	70	130
Isopropylbenzene	10		10.64	106	70	130
4-Ethyltoluene	10		10.04	100	70	130
1,3,5-Trimethylbenzene	10		9.537	95	70	130
1,2,4-Trimethylbenzene	10		9.835	98	70	130
Benzyl chloride	10		10.99	110	70	130
1,3-Dichlorobenzene	10		10.51	105	70	130
1,4-Dichlorobenzene	10		10.26	103	70	130
sec-Butylbenzene	10		10.12	101	70	130
4-Isopropyltoluene	10		9.880	99	70	130
1,2-Dichlorobenzene	10		10.06	101	70	130
n-Butylbenzene	10		10.20	102	70	130
1,2,4-Trichlorobenzene	10		14.91	149 *	70	130
						130

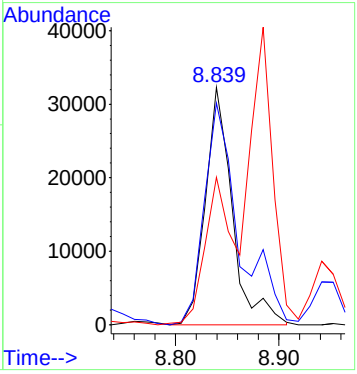
FORM III AIR

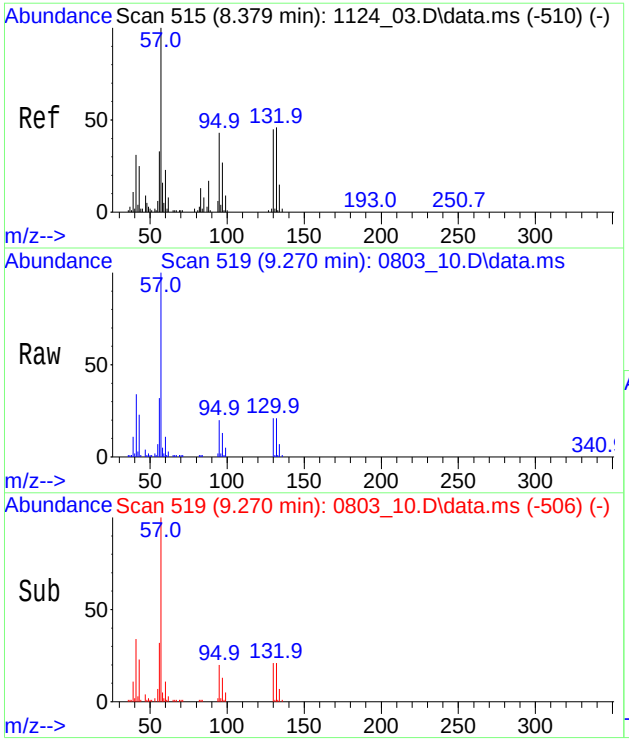


#36
Cyclohexane
Conc: 8$ 1.804 ppbv
RT: 8.839 min Scan# 481
Delta R.T. 0.000 min
Lab File: 0803_10.D
Acq: 3 Aug 2022 10:55 pm

Tgt Ion: 84 Resp: 58496

Ion	Ratio	Lower	Upper
84	100		
55	119.9	41.2	61.8#
42	64.4	28.9	43.3#

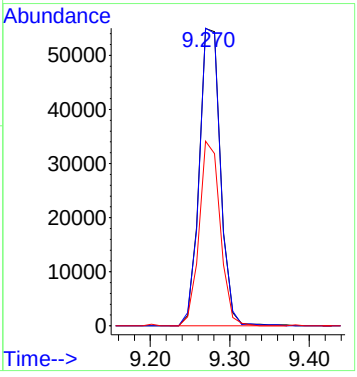


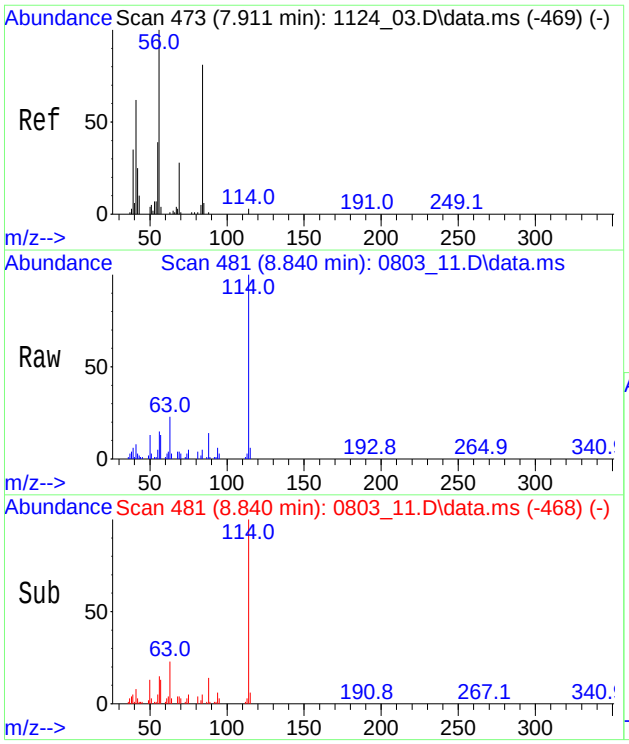


#40
Trichloroethene
Conc: 8$ 2.299 ppbv
RT: 9.270 min Scan# 519
Delta R.T. -0.000 min
Lab File: 0803_10.D
Acq: 3 Aug 2022 10:55 pm

Tgt Ion:130 Resp: 102505

Ion	Ratio	Lower	Upper
130	100		
132	99.4	79.9	119.9
97	61.3	52.9	79.3

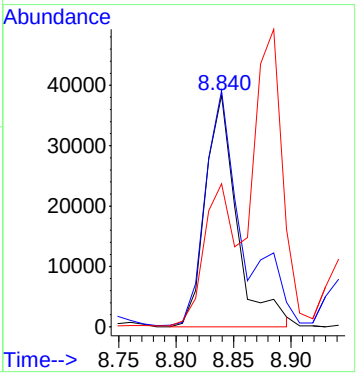


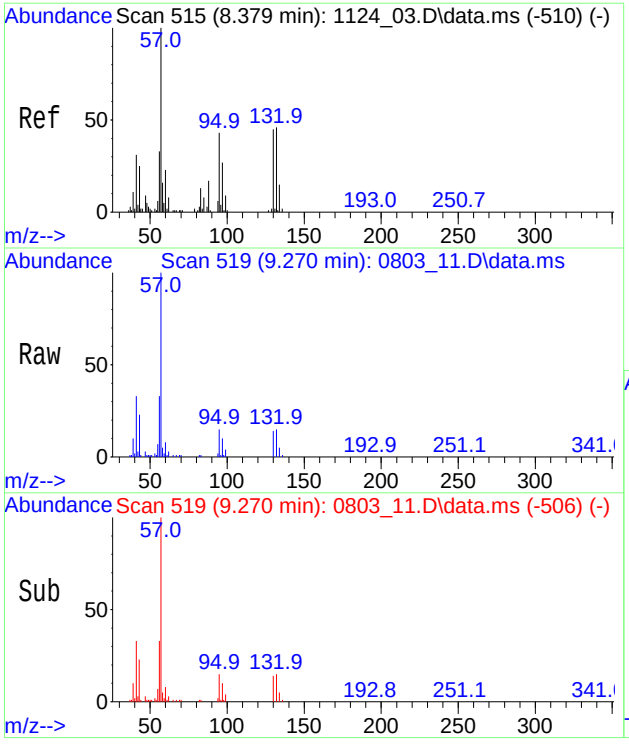


#36
Cyclohexane
Conc: 8$ 2.159 ppbv
RT: 8.840 min Scan# 481
Delta R.T. 0.001 min
Lab File: 0803_11.D
Acq: 3 Aug 2022 11:31 pm

Tgt Ion: 84 Resp: 72982

Ion	Ratio	Lower	Upper
84	100		
55	120.3	41.2	61.8#
42	56.7	28.9	43.3#

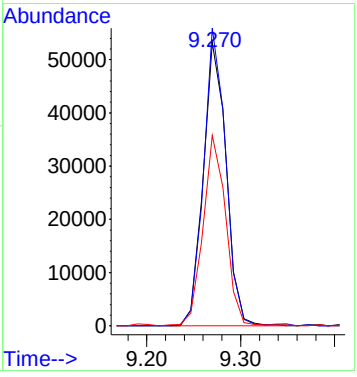




#40
Trichloroethene
Conc: 8$ 1.895 ppbv
RT: 9.270 min Scan# 519
Delta R.T. -0.000 min
Lab File: 0803_11.D
Acq: 3 Aug 2022 11:31 pm

Tgt Ion:130 Resp: 89980

Ion	Ratio	Lower	Upper
130	100		
132	100.8	79.9	119.9
97	66.5	52.9	79.3



1

CLIENT ID

AIR ANALYSIS DATA SHEET

CANISTER BLK 2599

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCL97021 Lab Sample ID: CANISTER BLK 2599

Canister: CANBL Lab File ID: 0713_08.D

Instrument: CHEM20 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 07/13/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.739		0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client:
Lab Code: Phoenix | SDG No.: GCL97021
Instrument ID: CHEM20 | Calibration Date From: 07/19/22 20:00
Heated Purge (Y/N): Y | Calibration Date Thru: 07/19/22 23:55
GC Column: | Method File: 20_AIR_0719.M

Laboratory File Ids

RRF1 0719_05.D RRF2 0719_06.D RRF3 0719_07.D RRF4 0719_08.D RRF5 0719_09.D RRF6 0719_10.D
RRF7 0719_11.D RRF8 0719_16.D RRF9 0719_12.D RRF10 0719_13.D RRF11 0719_17.D RRF12 0719_14.D
RRF13 0719_15.D

COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	_ RRF	% RSD
Benzene(sim)	3.743	3.422	3.408	2.815	3.175	2.837	2.526	2.534						3.057	14.65
Carbon Tetrachloride(sim)	2.056	1.918	1.872	1.719	2.431	2.142	2.007	2.130	2.031					2.034	9.82
1,1-Dichloroethene(sim)	2.029	1.838	1.664	1.569	2.147	1.872	1.803	1.776	1.680	1.880				1.826	9.42
Trichlorotrifluoroethane(sim)	2.032	1.865	1.755	1.832	2.421	2.141	2.012	2.024	1.968	2.164				2.021	9.46
Trans-1,2-Dichloroethene(sim)	1.88	1.586	1.546	1.275	2.016	1.703	1.539	1.547	1.537	1.736				1.637	12.66
1,1-Dichloroethane(sim)	1.956	1.906	1.825	1.800	2.345	2.106	1.959	1.978	1.950	2.174				2.000	8.28
Cis-1,2-Dichloroethene(sim)	1.724	1.626	1.519	1.165	1.768	1.662	1.600	1.528	1.477	1.675				1.575	10.87
Chloroform(sim)	2.019	1.659	1.745	1.688	2.293	2.011	1.876	1.895	1.844	2.072				1.910	10.17
1,2-dichloropropane(sim)	0.438	0.513	0.406	0.413	0.521	0.445	0.407	0.413	0.399	0.453				0.441	9.98
Bromodichloromethane(sim)	0.535	0.533	0.550	0.540	0.667	0.535	0.500	0.535	0.499	0.569				0.546	8.63
Trichloroethene(sim)	0.509	0.424	0.414	0.396	0.544	0.471	0.434	0.443	0.421	0.476				0.453	10.23
1,4-Dioxane(sim)					0.211	0.188	0.173	0.174	0.156	0.177				0.180	10.15
cis-1,3-Dichloropropene(sim)	0.481	0.448	0.421	0.425	0.539	0.475	0.452	0.466	0.449					0.462	7.71
1,1,2-Trichloroethane(sim)	0.327	0.362	0.340	0.355	0.406	0.356	0.324	0.344	0.330	0.368				0.351	7.00
Dibromochloromethane(sim)	0.622	0.531	0.657	0.640	0.775	0.660	0.616	0.674	0.631					0.645	9.90
1,2-Dibromoethane(EDB)(sim)	0.634	0.542	0.465	0.521	0.600	0.574	0.520	0.547	0.529	0.599				0.553	8.89
Tetrachloroethene(sim) qfi	0.022	0.040	0.069	0.099	0.112	0.198	0.464	0.952	2.293	5.220	9.946			Coef R2	1.00
Bromoform(sim)	1.233	1.031	1.012	0.996	1.329	1.157	1.125	1.304	1.226					1.157	10.85
m,p-Xylene(sim)	3.08	2.703	2.516	2.511	2.766	2.337	2.170	2.240	2.118	2.305				2.475	12.27
1,1,2,2-Tetrachloroethane(sim)	1.964	1.570	1.439	1.427	1.864	1.652	1.555	1.615	1.551	1.591				1.623	10.49
Benzyl chloride(sim) qfi	0.012	0.017	0.028	0.050	0.111	0.169	0.462	1.088	2.477					Coef R2	1.00
1,3-Dichlorobenzene(sim)	2.044	1.290	1.155	1.153	1.716	1.558	1.558	1.745	1.732	1.727				1.568	18.44
1,4-Dichlorobenzene(sim)	1.893	1.604	1.241	1.290	1.437	1.194	1.146	1.268	1.271					1.372	17.42
sec-Butylbenzene(sim)			3.276	3.277	4.921	4.328	4.141	4.205	4.053	3.942				4.018	13.53

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Client:
Lab Code: Phoenix
SDG No.: GCL97021
Instrument ID: CHEM20
Calibration Date From: 07/19/22 20:00
Heated Purge (Y/N): Y
Calibration Date Thru: 07/19/22 23:55
GC Column:
Method File: 20_AIR_0719.M

Laboratory File Ids

RRF1 0719_05.D RRF2 0719_06.D RRF3 0719_07.D RRF4 0719_08.D RRF5 0719_09.D RRF6 0719_10.D
RRF7 0719_11.D RRF8 0719_16.D RRF9 0719_12.D RRF10 0719_13.D RRF11 0719_17.D RRF12 0719_14.D
RRF13 0719_15.D

COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	_ RRF	% RSD
4-Isopropyltoluene(sim)			3.117	3.405	4.595	3.876	3.685	3.808	3.647					3.733	12.31
1,2-Dichlorobenzene(sim)	1.793	1.329	1.157	1.132	1.824	1.635	1.576	1.741	1.694	1.619				1.550	16.42
n-Butylbenzene(sim) qfi				0.034	0.114	0.192	0.479	1.044	2.487					Coef R2	1.00
1,2,4-Trichlorobenzene(sir l	0.036	0.037	0.038	0.040	0.098	0.164	0.393	1.216	2.348	5.045				Coef R2	1.00
Hexachlorobutadiene(sim) qfi	0.016	0.022	0.032	0.042	0.116	0.200	0.483	1.002	2.502					Coef R2	1.00
% Bromofluorobenzene						1.322	1.367	1.348	1.379	1.401	1.379	1.350	1.289	1.354	2.65

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

AIR ICV RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCL97021

ICV - Client Id: ICV_CHEM20_0719

COMPOUND	SPIKE ADDED (ppbv)		ICV CONCENTRATION (ppbv)	ICV % REC #	QC. LIMITS REC.	
Propylene	10		9.945	99	70	130
Dichlorodifluoromethane	10		9.325	93	70	130
Chloromethane	10		9.528	95	70	130
1,2-Dichlorotetrafluoroethane	10		9.907	99	70	130
Vinyl Chloride	10		9.577	96	70	130
1,3-Butadiene	10		9.504	95	70	130
Bromomethane	10		9.282	93	70	130
Chloroethane	10		8.693	87	70	130
Ethanol	10		17.36	174 *	70	130
Acetone	10		9.823	98	70	130
Trichlorofluoromethane	10		9.903	99	70	130
Isopropylalcohol	10		10.89	109	70	130
Acrylonitrile	10		9.576	96	70	130
1,1-Dichloroethene	10		9.784	98	70	130
Methylene Chloride	10		9.416	94	70	130
Carbon Disulfide	10		9.735	97	70	130
Trichlorotrifluoroethane	10		9.993	100	70	130
Trans-1,2-Dichloroethene	10		9.943	99	70	130
1,1-Dichloroethane	10		9.898	99	70	130
Methyl tert-butyl ether(MTBE)	10		9.645	96	70	130
Methyl Ethyl Ketone	10		10.11	101	70	130
Cis-1,2-Dichloroethene	10		10.59	106	70	130
Hexane	10		9.786	98	70	130
Chloroform	10		9.754	98	70	130
Ethyl acetate	10		9.963	100	70	130
Tetrahydrofuran	10		10.38	104	70	130
1,2-Dichloroethane	10		9.980	100	70	130
1,1,1-Trichloroethane	10		10.02	100	70	130
Benzene	10		9.902	99	70	130
Carbon Tetrachloride	10		10.47	105	70	130
Cyclohexane	10		9.747	97	70	130
1,2-dichloropropane	10		9.826	98	70	130
Bromodichloromethane	10		10.54	105	70	130
Trichloroethene	10		11.11	111	70	130
1,4-Dioxane	10		12.94	129	70	130
Heptane	10		9.756	98	70	130
cis-1,3-Dichloropropene	10		10.59	106	70	130
4-Methyl-2-pentanone(MIBK)	10		10.46	105	70	130
trans-1,3-Dichloropropene	10		10.46	105	70	130
1,1,2-Trichloroethane	10		10.47	105	70	130
Toluene	10		10.29	103	70	130
Dibromochloromethane	10		10.98	110	70	130
2-Hexanone(MBK)	10		11.13	111	70	130
1,2-Dibromoethane(EDB)	10		10.83	108	70	130

AIR ICV RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCL97021

ICV - Client Id: ICV_CHEM20_0719

COMPOUND	SPIKE ADDED (ppbv)		ICV CONCENTRATION (ppbv)	ICV % REC #	QC. LIMITS REC.	
Tetrachloroethene	10		10.93	109	70	130
1,1,1,2-Tetrachloroethane	10		10.40	104	70	130
Chlorobenzene	10		10.48	105	70	130
Ethylbenzene	10		9.840	98	70	130
m,p-Xylene	20		20.68	103	70	130
Bromoform	10		12.15	122	70	130
Styrene	10		10.97	110	70	130
1,1,2,2-Tetrachloroethane	10		10.85	109	70	130
o-Xylene	10		10.19	102	70	130
Isopropylbenzene	10		10.02	100	70	130
4-Ethyltoluene	10		11.41	114	70	130
1,3,5-Trimethylbenzene	10		11.05	111	70	130
1,2,4-Trimethylbenzene	10		11.73	117	70	130
Benzyl chloride	10		14.20	142 *	70	130
1,3-Dichlorobenzene	10		13.55	136 *	70	130
1,4-Dichlorobenzene	10		13.23	132 *	70	130
sec-Butylbenzene	10		9.589	96	70	130
4-Isopropyltoluene	10		9.525	95	70	130
1,2-Dichlorobenzene	10		13.74	137 *	70	130
n-Butylbenzene	10		9.894	99	70	130
1,2,4-Trichlorobenzene	10		16.71	167 *	70	130
Hexachlorobutadiene	10		13.41	134 *	70	130

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\07JUL\19\
Data File : 0719_18.D
Acq On : 20 Jul 2022 12:30 am
Operator :
Sample : 10ppb lcs ; AIR
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 12:22:00 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0719.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Jul 21 12:19:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.689	130	282259	10.000	ng		0.00
37) 1,4-Difluorobenzene	8.840	114	1066461	10.000	ng		0.00
54) Chlorobenzene-d5	11.291	82	534030	10.000	ng		0.00
81) Bromochloromethane(sim)	7.694	130	304041	10.000	ng	#	0.00
96) 1,4-Difluorobenzene(sim)	8.840	114	1066148	10.000	ng		0.00
106) Chlorobenzene-d5(sim)	11.291	82	534030	10.000	ng	#	0.00
System Monitoring Compounds							
63) % Bromofluorobenzene	12.111	95	725998	10.037	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.40%				
Target Compounds							Qvalue
2) Propylene	4.200	41	253260	9.945	ppbv		95
3) Dichlorodifluoromethane	4.275	85	617143	9.325	ppbv		98
4) Chloromethane	4.437	50	310608	9.528	ppbv		100
5) 1,2-Dichlorotetrafluor...	4.534	85	629489	9.907	ppbv		91
6) Vinyl Chloride	4.642	62	290566	9.577	ppbv		98
7) 1,3-Butadiene	4.771	54	270106	9.504	ppbv#		94
8) Bromomethane	5.008	94	228637	9.282	ppbv#		95
9) Chloroethane	5.148	64	125994	8.693	ppbv		97
10) Vinyl Bromide	5.428	106	249855	9.829	ppbv#		94
11) Ethanol	5.234	45	230393	17.358	ppbv		94
12) Acetone	5.612	43	545983	9.823	ppbv#		80
13) Trichlorofluoromethane	5.752	101	680083	9.903	ppbv		100
14) Isopropylalcohol	5.795	45	761716	10.886	ppbv#		90
15) Acrylonitrile	5.946	53	278452	9.576	ppbv		91
16) 1,1-Dichloroethene	6.202	61	521137	9.784	ppbv		96
17) Methylene Chloride	6.280	49	418399	9.416	ppbv#		81
18) tert-butyl alcohol	6.237	59	721696	10.456	ppbv#		95
19) Allyl Chloride	6.366	41	446144	10.162	pbv #		84
20) Carbon Disulfide	6.521	76	654152	9.735	ppbv		99
21) Trichlorotrifluoroethane	6.461	101	577674	9.993	ppbv		95
22) Trans-1,2-Dichloroethene	6.912	61	482509	9.942	ppbv		86
23) 1,1-Dichloroethane	7.046	63	563421	9.898	ppbv		94
24) Methyl tert-butyl ethe...	7.078	73	651292	9.645	ppbv#		84
25) Vinyl Acetate	7.109	43	1964384	11.007	ppbv#		97
26) Methyl Ethyl Ketone	7.283	43	770145	10.108	ppbv#		92
27) Cis-1,2-Dichloroethene	7.584	61	514407	10.587	ppbv#		82
28) Hexane	7.699	57	579718	9.786	ppbv#		83
29) Chloroform	7.761	83	548744	9.754	ppbv		95
30) Ethyl acetate	7.678	61	126766	9.963	ppbv#		77
31) Tetrahydrofuran	8.022	42	460428	10.378	ppbv#		85
32) 1,2-Dichloroethane	8.230	62	426918	9.980	ppbv		95
33) 1,1,1-Trichloroethane	8.386	97	591354	10.017	ppbv		95
34) Benzene	8.670	78	786052	9.902	ppbv#		94
35) Carbon Tetrachloride	8.760	117	639653	10.472	ppbv		96
36) Cyclohexane	8.840	84	295210	9.747	ppbv#		69
38) 1,2-dichloropropane	9.134	63	422307	9.826	ppbv#		84
39) Bromodichloromethane	9.247	83	596399	10.545	ppbv		98
40) Trichloroethene	9.270	130	476782	11.110	ppbv		96
41) 2,2,4-trimethylpentane	9.270	57	1863311	10.005	ppbv		96
42) 1,4-Dioxane	9.258	88	231749	12.942	ppbv#		73
43) Methyl methacrylate	9.326	69	308769	10.575	ppbv		99
44) Heptane	9.394	43	758878	9.756	ppbv#		89

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\07JUL\19\
Data File : 0719_18.D
Acq On : 20 Jul 2022 12:30 am
Operator :
Sample : 10ppb lcs ; AIR
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 12:22:00 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0719.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Jul 21 12:19:06 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45)	cis-1,3-Dichloropropene	9.745	75	489092	10.589	ppbv	98
46)	4-Methyl-2-pentanone(M...	9.745	43	1012760	10.462	ppbv#	92
47)	trans-1,3-Dichloropropene	10.028	75	446825	10.457	ppbv	97
48)	1,1,2-Trichloroethane	10.141	97	379915	10.469	ppbv	97
49)	Toluene	10.311	91	1132803	10.286	ppbv	99
50)	Dibromochloromethane	10.553	129	867426	10.984	ppbv	99
51)	2-Hexanone(MBK)	10.413	43	1053828	11.128	ppbv#	96
52)	1,2-Dibromoethane(EDB)	10.699	107	641411	10.833	ppbv	99
53)	Tetrachloroethene	10.942	166	622237	10.927	ppbv	98
55)	1,1,1,2-Tetrachloroethane	11.301	131	491106	10.400	ppbv	100
56)	Chlorobenzene	11.312	112	935978	10.475	ppbv	95
57)	Ethylbenzene	11.496	91	1462258	9.840	ppbv	99
58)	m,p-Xylene	11.588	91	2330160	20.676	ppbv	98
59)	Bromoform	11.670	173	759250	12.146	ppbv	98
60)	Styrene	11.793	104	906266	10.974	ppbv#	91
61)	1,1,2,2-Tetrachloroethane	11.855	83	826114	10.854	ppbv	96
62)	o-Xylene	11.855	91	1195629	10.187	ppbv	97
64)	2-Chlorotoluene	12.460	126	405612	10.010	ppbv	89
65)	Isopropylbenzene	12.173	105	1530665	10.015	ppbv	97
66)	n-Propylbenzene	12.460	120	427316	10.046	ppbv	98
67)	4-Ethyltoluene	12.542	105	1920045	11.409	ppbv	94
68)	1,3,5-Trimethylbenzene	12.583	105	1411350	11.053	ppbv	89
69)	1,2,4-Trimethylbenzene	12.829	105	1590219	11.725	ppbv#	94
70)	tert-butylbenzenze	12.829	119	1485688	9.849	ppbv	96
71)	Benzyl chloride	12.932	91	996589	14.203	ppbv#	84
72)	1,3-Dichlorobenzene	12.952	146	1155391	13.550	ppbv	100
73)	1,4-Dichlorobenzene	12.983	146	856240	13.234	ppbv	98
74)	sec-Butylbenzene	12.993	105	1860495	9.589	ppbv	98
75)	4-Isopropyltoluene	13.075	119	1769710	9.525	ppbv	96
76)	1,2-Dichlorobenzene	13.209	146	1051051	13.744	ppbv	99
77)	n-Butylbenzene	13.342	91	1418536	9.894	ppbv	99
78)	1,2,4-Trichlorobenzene	14.399	180	585884	16.714	ppbv	99
79)	Naphthalene	14.492	128	1440545	14.775	ppbv#	100
80)	Hexachlorobutadiene	14.728	225	886175	13.415	ppbv	99
82]	1,2-Dichlorotetrafluor...	4.534	85	627047	9.011	ppbv	91
83]	Vinyl Chloride(sim)	4.647	62	311149	9.483	ppbv	97
84]	Bromomethane(sim)	5.008	94	228637	8.027	ppbv#	95
85]	Trichlorofluoromethane...	5.757	101	716060	9.872	ppbv#	99
86]	1,2-Dichloroethane(sim)	8.230	62	427391	9.770	ppbv	95
87]	1,1,1-Trichloroethane(...	8.392	97	632124	10.201	ppbv#	95
88]	Benzene(sim)	8.670	78	786498	8.461	ppbv#	94
89]	Carbon Tetrachloride(sim)	8.766	117	672758	10.879	ppbv	97
90]	1,1-Dichloroethene(sim)	6.202	61	521137	9.388	ppbv	96
91]	Trichlorotrifluoroetha...	6.458	101	607603	9.886	ppbv#	98
92]	Trans-1,2-Dichloroethe...	6.912	61	482509	9.697	ppbv	86
93]	1,1-Dichloroethane(sim)	7.052	63	603076	9.918	ppbv#	96
94]	Cis-1,2-Dichloroethene...	7.584	61	514407	10.745	ppbv#	82
95]	Chloroform(sim)	7.767	83	580265	9.991	ppbv	95
97]	1,2-dichloropropane(sim)	9.140	63	454381	9.669	ppbv#	85
98]	Bromodichloromethane(sim)	9.247	83	596399	10.240	ppbv	98
99]	Trichloroethene(sim)	9.275	130	506810	10.489	ppbv	96
100]	1,4-Dioxane(sim)	9.258	88	231749	12.089	ppbv#	73
101]	cis-1,3-Dichloropropen...	9.751	75	526872	10.702	ppbv	98
102]	1,1,2-Trichloroethane(...	10.141	97	379915	10.147	ppbv	97
103]	Dibromochloromethane(sim)	10.559	129	813315	11.823	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\07JUL\19\
Data File : 0719_18.D
Acq On : 20 Jul 2022 12:30 am
Operator :
Sample : 10ppb lcs ; AIR
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 12:22:00 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0719.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Jul 21 12:19:06 2022
Response via : Initial Calibration

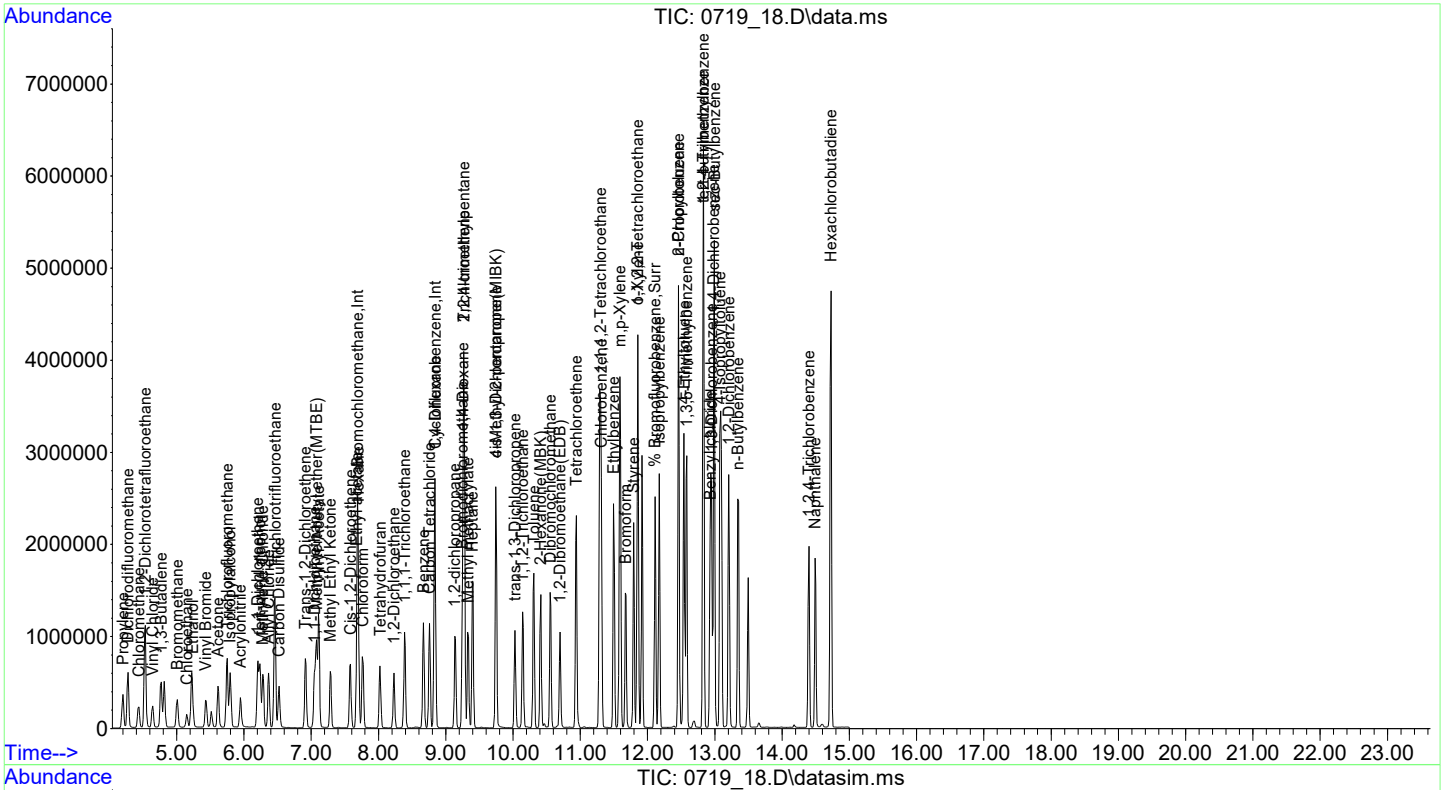
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104] 1,2-Dibromoethane(EDB)...	10.699	107	641411	10.877	ppbv	99
105] Tetrachloroethene(sim)	10.947	166	686788	10.853	ppbv	99
107] Bromoform(sim)	11.676	173	829597	13.427	ppbv	99
108] m,p-Xylene(sim)	11.588	91	2336280	17.678	ppbv	98
109] 1,1,2,2-Tetrachloroeth...	11.850	83	862263	9.949	ppbv	97
110] n-Propylbenzene(sim)	12.460	120	427316	9.048	ppbv	98
111] tert-butylbenzenze(sim)	12.835	119	1596164	9.186	ppbv#	95
112] Benzyl chloride(sim)	12.932	91	996589	10.437	ppbv	98
113] 1,3-Dichlorobenzene(sim)	12.948	146	1138811	13.603	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.983	146	856240	11.690	ppbv	98
115] sec-Butylbenzene(sim)	12.999	105	1939945	9.041	ppbv	97
116] 4-Isopropyltoluene(sim)	13.075	119	1770660	8.881	ppbv	96
117] 1,2-Dichlorobenzene(sim)	13.214	146	1148034	13.871	ppbv	99
118] n-Butylbenzene(sim)	13.342	91	1418536	9.555	ppbv	99
119] 1,2,4-Trichlorobenzene...	14.405	180	654884	16.058	ppbv	99
120] Naphthalene(sim)	14.492	128	1440545	4.410	ppbv	99
121] Hexachlorobutadiene(sim)	14.733	225	1043174	Outside Cal		100

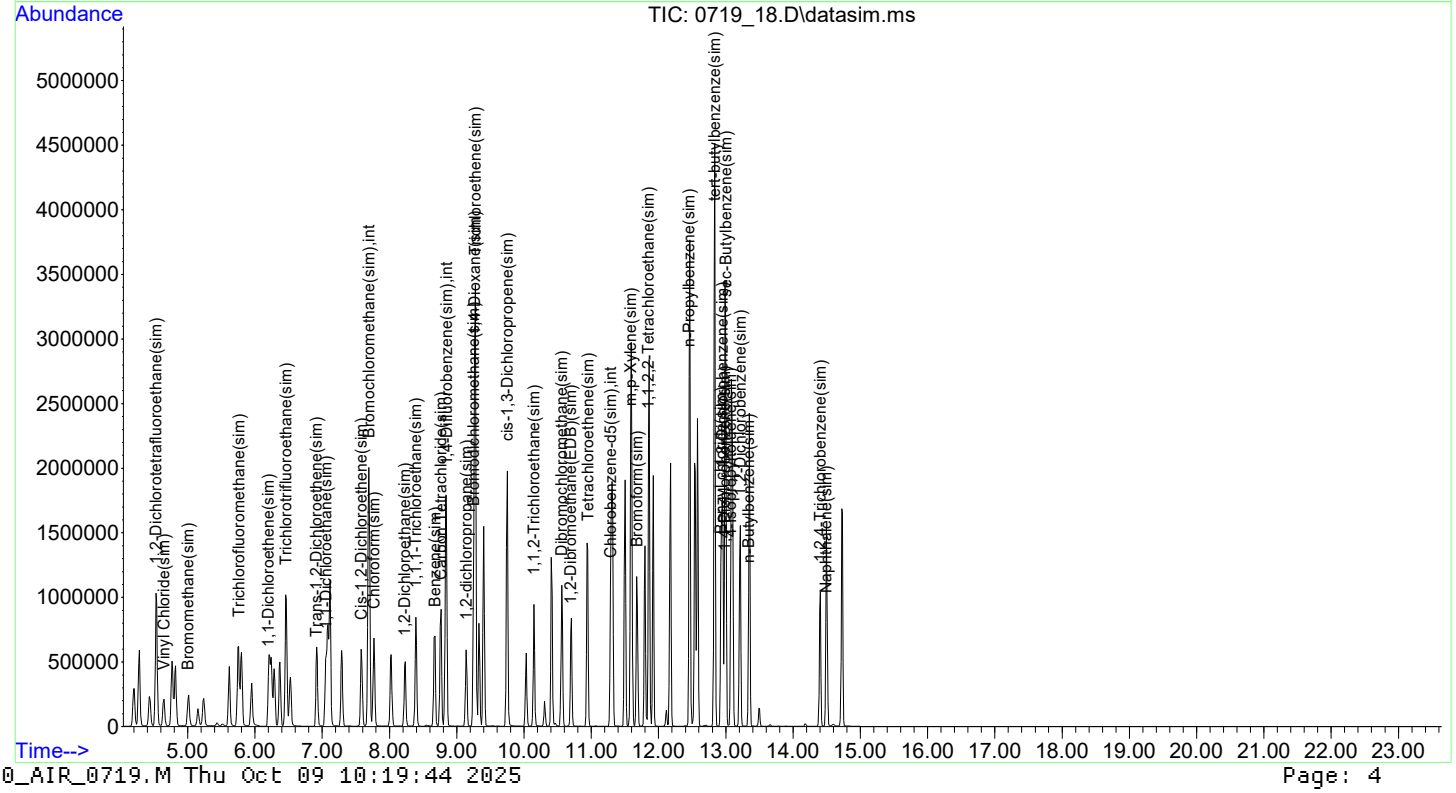
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\07JUL\19\
Data File : 0719_18.D
Acq On : 20 Jul 2022 12:30 am
Operator :
Sample : 10ppb lcs ; AIR
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 12:22:00 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0719.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Jul 21 12:19:06 2022
Response via : Initial Calibration

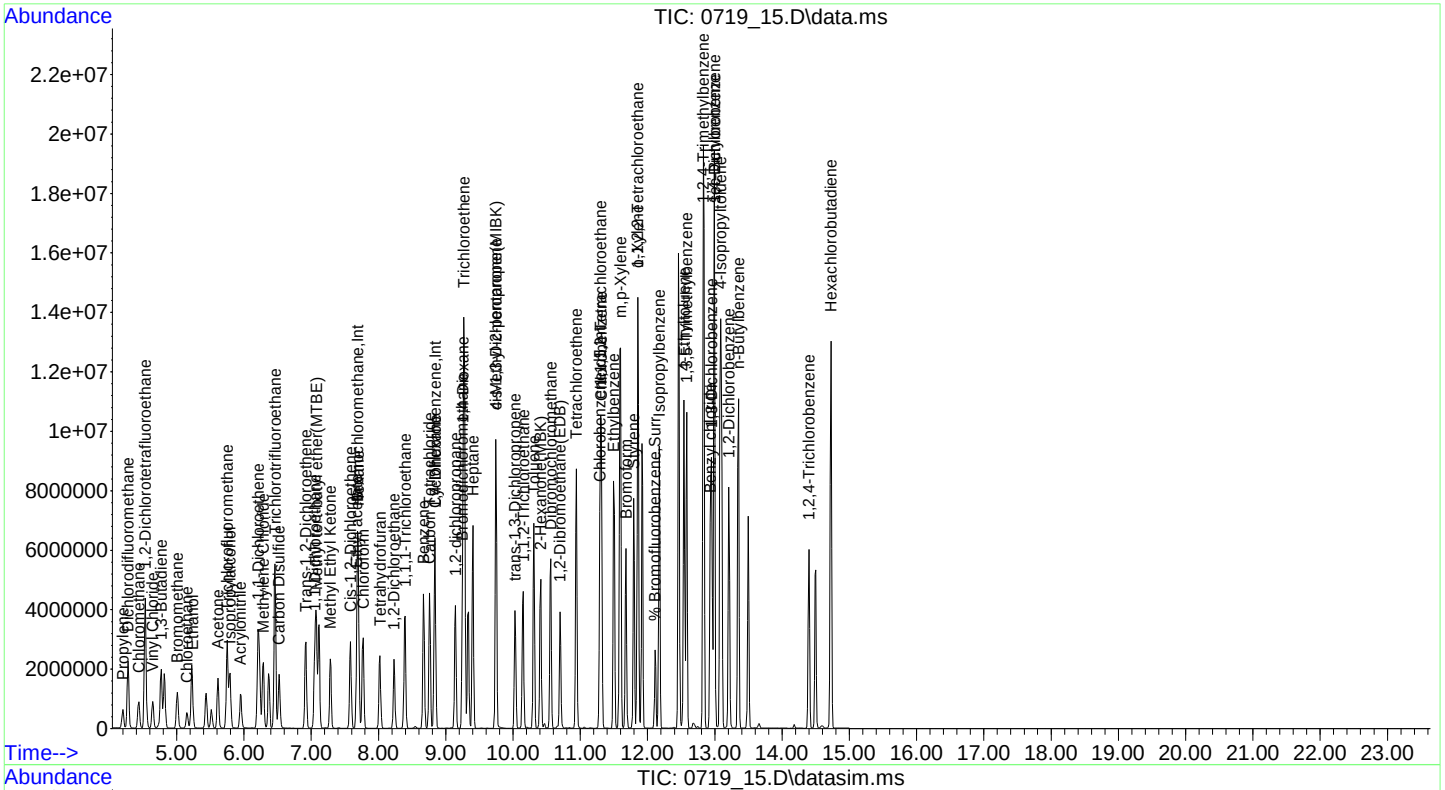


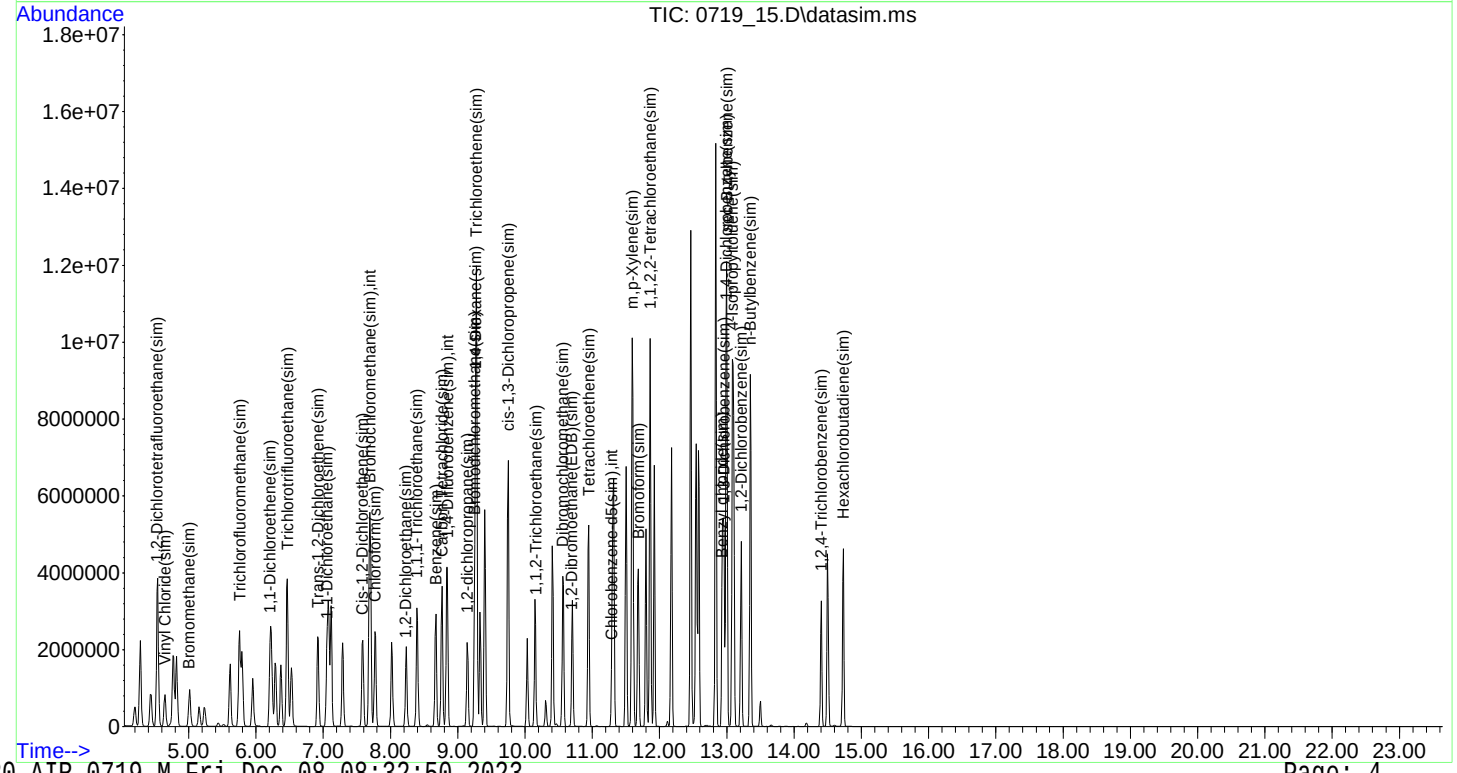


Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\07JUL\19\
Data File : 0719_15.D
Acq On : 19 Jul 2022 10:51 pm
Operator :
Client ID : ICAL 40
Lab ID : 40 ppb ; AIR
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 21 10:48:06 2022
Quant Method : H:\AIR2022\CHEM20\METHODS\20_AIR_0719.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Jul 12 08:18:22 2022
Response via : Initial Calibration





ATTACHMENT D

ANNOTATED SUMMARY FORMS

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-4

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCL97021 Lab Sample ID: CL97021

Canister: 28560 Lab File ID: 0803_10.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 08/03/22

Purge Volume: 200 (cc) Date Analyzed: 08/03/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.548		0.202	0.202	r
74-87-3	Chloromethane	0.596	J+	0.485	0.485	r
75-01-4	Vinyl Chloride	1.82		0.078	0.078	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	62.8	J	0.531	0.531	r
67-64-1	Acetone	31.0	J+	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.265		0.178	0.178	r
67-63-0	Isopropylalcohol	4.48		0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	1.70		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	17.2		0.051	0.051	r
110-54-3	Hexane	5.37		0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	6.13		0.339	0.339	r
71-43-2	Benzene	1.28		0.313	0.313	r
110-82-7	Cyclohexane		U	1.81	1.81	r
79-01-6	Trichloroethene	2.30		0.037	0.037	r
142-82-5	Heptane	1.64		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	7.16		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	3.28		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.928		0.230	0.230	r
179601-23-1	m,p-Xylene	3.21		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	1.23		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.972		0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

CLIENT ID

AIR ANALYSIS DATA SHEET

IA-4

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCL97021 Lab Sample ID: CL97021

Canister: 28560 Lab File ID: 0803_10.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 08/03/22

Purge Volume 200 (cc) Date Analyzed: 08/03/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
108-67-8	1,3,5-Trimethylbenzene	0.403		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	1.21		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.085		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.055		0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	R	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.176		0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	R	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	R	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	R	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/5/2025

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-7

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCL97021 Lab Sample ID: CL97022

Canister: 23330 Lab File ID: 0803_11.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 08/03/22

Purge Volume: 200 (cc) Date Analyzed: 08/03/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	1.01		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.502		0.202	0.202	r
74-87-3	Chloromethane	0.630	J+	0.485	0.485	r
75-01-4	Vinyl Chloride	1.90		0.078	0.078	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	76.1	J	0.531	0.531	r
67-64-1	Acetone	44.7	J+	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.289		0.178	0.178	r
67-63-0	Isopropylalcohol	4.24		0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	1.17		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	16.0		0.051	0.051	r
110-54-3	Hexane	6.22		0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	2.57		0.339	0.339	r
71-43-2	Benzene	1.72		0.313	0.313	r
110-82-7	Cyclohexane		U	2.16	2.16	r
79-01-6	Trichloroethene	1.90		0.037	0.037	r
142-82-5	Heptane	1.99		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	7.10		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	2.80		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.995		0.230	0.230	r
179601-23-1	m,p-Xylene	3.54		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	1.33		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	1.03		0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-7

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCL97021 Lab Sample ID: CL97022

Canister: 23330 Lab File ID: 0803_11.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 08/03/22

Purge Volume: 200 (cc) Date Analyzed: 08/03/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
108-67-8	1,3,5-Trimethylbenzene	0.406		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	1.23		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.081		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	R	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	R	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	R	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	R	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/5/2025

December 8, 2025

Mr. Jason Stewart
Advanced Cleanup Technologies
228 Park Ave S PMB 34864
New York, New York 10003

Re: Data Usability Summary Report – Phoenix Environmental Laboratories, Inc. – GCM85136 V1

Dear Mr. Stewart:

The evaluation of analytical data by Phoenix Environmental Laboratories for project 9268-BXNY, which were reported in a single data package under Job No. GCM85136 V1 has been completed. The following samples were reported.

SS-12 IA-11 OA-2

Analysis was performed in accordance with EPA Method TO-15 (volatile organics). The review was performed to the extent possible, in accordance with the analytical method, and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. National Functional Guidelines for Organic Data Review was consulted as needed. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	No – see Documentation Section
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes
7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

- The results for all target analytes in all samples are qualified as estimated (J, UJ because there is no evidence that the samples were properly preserved .

- The result for 1,2,4-trichlorobenzene in SS-12 is qualified as estimated (UJ) due to low response in the continuing calibration verification (CCV) standard.

- The results for acetone in IA-11 and OA-2 are qualified as estimated (J+) due to high response in the CCV.

- The results for isopropyl alcohol and 1,4-dioxane in IA-11 and OA-2 are qualified as estimated (J-, UJ) due to low recovery in the laboratory control sample (LCS).

- The results for ethanol in IA-11 and acetone in SS-12 (undiluted analysis) are qualified as estimated (J) because the reported concentration is outside the calibration range.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C. Annotated Summary Forms are included in Attachment D detailing qualifications resulting from the data review effort.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
    - Method, instrument blanks
    - Clean canister certification
    - Field blanks

  - Surrogate recoveries
  - LCS recoveries
  - Internal standard area response
  - Duplicates
  - Analyte Identification
- Instrument related quality control data:
  - Instrument tunes
  - Calibration summaries

The following sections of the report detail only quality control exceedances that impacted results. Where a quality control item exceeded control limits but there is no impact to the samples results, these are not detailed in the report.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package, with the following exceptions:

- The data package does not include summary forms and raw data for the second source initial calibration verification (ICV) standard. The laboratory was contacted and provided the ICV data and is included in attachment C.
- Calibration data for the clean canister certification analysis is not included in the data package.

The following documentation issues were observed during the review:

- Results for ethanol, acetone, isopropyl alcohol, and hexane in all samples are flagged 'S' which the data deliverable identifies this flag as 'This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.' Where the sample detections are greater than five times the reporting limit, the validator removed the 'S' qualifier.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of November 9, 2022. The samples were received on November 14, 2022. Samples were analyzed within the method specified hold time. However, the data package does contain sample receipt information regarding condition of canisters upon receipt. Since there is no evidence that the samples were properly preserved (pressure inside the canister maintained within +/- 5 psi from sampling to check in the laboratory or analysis), the results for all target analytes in all samples are qualified as estimated (J, UJ).

A. Volatile Organics

1. Calibration

Two initial calibrations (IC) were performed in support of the sample analysis. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients are acceptable. A second source ICV standard was analyzed after each IC, and all percent differences are acceptable (70-130%R). Continuing calibration verification (CCV) standard were analyzed at the appropriate frequency and are acceptable (%D<30), with the exceptions noted below

Analyte	**%D**	**Associated Sample**	**Qualifier Applied**
CCV CHEM20 11/14/22 12:47			
1,2,4-Trichlorobenzene (SIM)	34.4	SS-12	UJ
CCV CHEM39 11/14/22 14:40			
Acetone	-35.5	IA-11 OA-2	J+

The percent difference for 1,2,4-trichlorobenzene (SIM) represents a decrease in instrument sensitivity. The result for 1,2,4-trichlorobenzene in SS-12 is qualified as estimated (UJ) due to low response in the CCV.

The percent difference for acetone represents an increase in instrument sensitivity. The results for acetone in IA-11 and OA-2 are qualified as estimated (J+) due to high response in the CCV.

2. Laboratory Control Sample (LCS)

Two LSCs were prepared and analyzed with the sample. The LCS is evaluated using control limit of 70-130%R. All recoveries are acceptable, with the following exceptions:

Analyte	**LCS %R**	**Affected Sample**	**Qualifier Applied**
CM85137 LCS			
Isopropyl alcohol	63	IA-11 OA-2	J-, UJ
1,4-Dioxane (SIM)*	64*		

*The summary form provided by the laboratory reports LCS recoveries based on the full scan analysis. The validator reviewed the raw data to determine the recovery in the SIM analysis and this recovery is presented above.

The results for isopropyl alcohol and 1,4-dioxane (SIM) in IA-11 and OA-2 are qualified as estimated (J-, UJ) due to low recovery in the LCS.

3. Compound Quantitation

The result for ethanol in IA-11 and result for acetone in SS-12 (undiluted analysis) is qualified as estimated (J) because the reported concentration is outside the calibration range. Results from the diluted analysis.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD
AIR ANALYSES

860-645-1102
email: greg@phoenixlabs.com

P.O. # Page of

Data Delivery:
☐ Fax #:
☐ Email:
☐ Phone #:

Report to: Jason Stewart	Project Name: 9628 · BXNY	Data Format: (Circle) Equis Excel Other:
Customer: Advanced Cleanup Technologies Inc.	Invoice to: Kwen Friedman	Requested Deliverable: RCP ASP CAT B
Address: 228 Park Ave S		MCP NJ Deliverables
PMB 34864 NY, NY 10003	Sampled by: Tim Young	Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
86136	SS-12	11287	6.0L	-30	-9	5620	22.8	0945	1240	11/9	-30	-8		X		✓	
86137	IA-11	28614	6.0L	-30	-8	5618	3.6	1420	0915	11/9/11/10	-30	-8	X			✓	
86138	OA-2	11257	6.0L	-30	-5	3248	3.7	1430	0917	11/9/11/10	-30	-8	X			✓	

Relinquished by:	Accepted by:	Date:	Time:
		11.14.22	1043
		11.14.22	1715

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:
Signature: Date: 11/10

State Where Samples Collected: Bronx, NY

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Turnaround Time:
- 1 Day ☐
- 2 Day ☐
- 3 Day ☐
- 4 Day ☐
- 5 Day ☒

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air:	Indoor Air:	Vapor Intrusion	Indoor Air	Indoor Air
TAC RES	Residential	Residential		Residential	Residential
SVVC I/C	Ind/Commercial	Ind/Commercial		Non-residential	Industrial
SVVC RES	Soil Gas:	Soil Gas:			Sub-slab
GWV I/C	Residential	Residential			Residential
GWV CES	Ind/Commercial	Ind/Commercial			Industrial

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCM85136

LCS - Client Id: CM85137 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		11.85	119	70	130
Dichlorodifluoromethane	10		10.34	103	70	130
Chloromethane	10		11.04	110	70	130
1,2-Dichlorotetrafluoroethane	10		10.77	108	70	130
Vinyl Chloride	10		10.62	106	70	130
1,3-Butadiene	10		10.82	108	70	130
Bromomethane	10		9.582	96	70	130
Chloroethane	10		10.36	104	70	130
Ethanol	10		7.239	72	70	130
Acetone	10		10.72	107	70	130
Trichlorofluoromethane	10		9.728	97	70	130
Isopropylalcohol	10		6.293	63 *	70	130
Acrylonitrile	10		10.12	101	70	130
1,1-Dichloroethene	10		9.973	100	70	130
Methylene Chloride	10		10.63	106	70	130
Carbon Disulfide	10		10.12	101	70	130
Trichlorotrifluoroethane	10		10.09	101	70	130
Trans-1,2-Dichloroethene	10		14.69	147 *	70	130
1,1-Dichloroethane	10		10.54	105	70	130
Methyl tert-butyl ether(MTBE)	10		9.849	98	70	130
Methyl Ethyl Ketone	10		10.54	105	70	130
Cis-1,2-Dichloroethene	10		10.47	105	70	130
Hexane	10		11.08	111	70	130
Chloroform	10		10.19	102	70	130
Ethyl acetate	10		9.101	91	70	130
Tetrahydrofuran	10		10.70	107	70	130
1,2-Dichloroethane	10		9.959	100	70	130
1,1,1-Trichloroethane	10		9.772	98	70	130
Benzene	10		10.15	102	70	130
Carbon Tetrachloride	10		9.987	100	70	130
Cyclohexane	10		9.945	99	70	130
1,2-dichloropropane	10		11.02	110	70	130
Bromodichloromethane	10		10.61	106	70	130
Trichloroethene	10		10.55	106	70	130
1,4-Dioxane	10		6.354	64 *	70	130
Heptane	10		12.03	120	70	130
cis-1,3-Dichloropropene	10		11.15	112	70	130
4-Methyl-2-pentanone(MIBK)	10		11.20	112	70	130
trans-1,3-Dichloropropene	10		10.94	109	70	130
1,1,2-Trichloroethane	10		10.63	106	70	130
Toluene	10		10.79	108	70	130
Dibromochloromethane	10		11.19	112	70	130
2-Hexanone(MBK)	10		10.68	107	70	130
1,2-Dibromoethane(EDB)	10		11.02	110	70	130

FORM III AIR

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCM85136

Instrument: CHEM20 Calibration Date: 11/14/22 Time: 12:47

Lab File Id: 1114_02.D Init. Calib. Date(s): 10/10/22 10/10/22

Heated Purge (Y/N): Y Init. Calib. Times: 11:30 18:12

GC Column: RTX-1 60M Method File: 20_AIR_1010.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.535	1.840		-19.9	30
1,1,1-Trichloroethane(sim)	2.249	2.524		-12.2	30
Benzene(sim)	2.853	2.357		17.4	30
Carbon Tetrachloride(sim)	2.338	2.746		-17.5	30
1,1-Dichloroethene(sim)	1.753	1.896		-8.2	30
Trichlorotrifluoroethane(sim)	2.090	1.854		11.3	30
Trans-1,2-Dichloroethene(sim)	1.726	1.789		-3.7	30
1,1-Dichloroethane(sim)	2.069	2.243		-8.4	30
Cis-1,2-Dichloroethene(sim)	1.602	1.723		-7.6	30
Chloroform(sim)	2.058	2.193		-6.6	30
1,2-dichloropropane(sim)	0.453	0.420		7.3	30
Bromodichloromethane(sim)	0.630	0.623		1.1	30
Trichloroethene(sim)	0.483	0.434		10.1	30
1,4-Dioxane(sim)	0.179	0.150		16.2	30
cis-1,3-Dichloropropene(sim)	0.498	0.453		9.0	30
1,1,2-Trichloroethane(sim)	0.365	0.330		9.6	30
Dibromochloromethane(sim)	0.764	0.795		-4.1	30
1,2-Dibromoethane(EDB)(sim)	0.597	0.491		17.8	30
Tetrachloroethene(sim)	0.671	0.646		3.7	30
Bromoform(sim)	1.657	1.852		-11.8	30
m,p-Xylene(sim)	2.191	2.043		6.8	30
1,1,2,2-Tetrachloroethane(sim)	1.830	1.558		14.9	30
Benzyl chloride(sim)	1.890	1.819		3.8	30
1,3-Dichlorobenzene(sim)	2.412	2.175		9.8	30
1,4-Dichlorobenzene(sim)	2.191	1.815		17.2	30
sec-Butylbenzene(sim)	4.557	4.106		9.9	30
4-Isopropyltoluene(sim)	3.859	3.549		8.0	30
1,2-Dichlorobenzene(sim)	2.373	2.002		15.6	30
n-Butylbenzene(sim)	3.088	2.829		8.4	30
1,2,4-Trichlorobenzene(sim)	1.595	1.047		34.4 #	30
Hexachlorobutadiene(sim)	2.397	1.962		18.1	30
% Bromofluorobenzene	1.395	1.388		0.5	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCM85136

Instrument: CHEM39 Calibration Date: 11/14/22 Time: 14:40

Lab File Id: 1114_02.D Init. Calib. Date(s): 10/30/22 10/31/22

Heated Purge (Y/N): Y Init. Calib. Times: 18:32 11:56

GC Column: RTX-1 ; #10157 Method File: 39_AIR_1030.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	1.149	1.410		-22.7	30
Dichlorodifluoromethane	3.820	3.861		-1.1	30
Chloromethane	2.622	3.211		-22.5	30
1,2-Dichlorotetrafluoroethane	4.418	4.680		-5.9	30
Vinyl Chloride	2.112	2.250		-6.5	30
1,3-Butadiene	2.131	2.046		4.0	30
Bromomethane	1.638	1.590		2.9	30
Chloroethane	0.864	0.963		-11.5	30
Ethanol	0.886	1.088		-22.8	30
Acetone	4.178	5.660		-35.5 #	30
Trichlorofluoromethane	4.334	4.344		-0.2	30
Isopropylalcohol	5.157	5.761		-11.7	30
Acrylonitrile	2.062	2.288		-11.0	30
1,1-Dichloroethene	3.591	3.775		-5.1	30
Methylene Chloride	3.689	4.140		-12.2	30
Carbon Disulfide	4.550	4.889		-7.5	30
Trichlorotrifluoroethane	3.544	3.455		2.5	30
Trans-1,2-Dichloroethene	1.832	1.960		-7.0	30
1,1-Dichloroethane	2.169	2.369		-9.2	30
Methyl tert-butyl ether(MTBE)	2.649	2.628		0.8	30
Methyl Ethyl Ketone	3.111	3.596		-15.6	30
Cis-1,2-Dichloroethene	1.781	1.918		-7.7	30
Hexane	2.248	2.363		-5.1	30
Chloroform	2.343	2.415		-3.1	30
Ethyl acetate	0.538	0.497		7.6	30
Tetrahydrofuran	1.820	2.106		-15.7	30
1,2-Dichloroethane	1.805	1.944		-7.7	30
1,1,1-Trichloroethane	2.361	2.418		-2.4	30
Benzene	3.067	3.363		-9.7	30
Carbon Tetrachloride	2.540	2.435		4.1	30
Cyclohexane	1.218	1.262		-3.6	30
1,2-dichloropropane	0.417	0.432		-3.6	30
Bromodichloromethane	0.722	0.642		11.1	30
Trichloroethene	0.474	0.419		11.6	30
1,4-Dioxane	0.181	0.141		22.1	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

AIR ICV RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCM85136

ICV - Client Id: ICV_CHEM20_1010

COMPOUND	SPIKE ADDED (ppbv)		ICV CONCENTRATION (ppbv)	ICV % REC #	QC. LIMITS REC.	
Propylene	10		9.268	93	70	130
Dichlorodifluoromethane	10		9.484	95	70	130
Chloromethane	10		8.908	89	70	130
1,2-Dichlorotetrafluoroethane	10		9.279	93	70	130
Vinyl Chloride	10		9.232	92	70	130
1,3-Butadiene	10		9.443	94	70	130
Bromomethane	10		9.238	92	70	130
Chloroethane	10		9.545	95	70	130
Ethanol	10		10.94	109	70	130
Acetone	10		9.011	90	70	130
Trichlorofluoromethane	10		9.247	92	70	130
Isopropylalcohol	10		9.940	99	70	130
Acrylonitrile	10		9.946	99	70	130
1,1-Dichloroethene	10		9.536	95	70	130
Methylene Chloride	10		8.938	89	70	130
Carbon Disulfide	10		9.571	96	70	130
Trichlorotrifluoroethane	10		9.599	96	70	130
Trans-1,2-Dichloroethene	10		9.363	94	70	130
1,1-Dichloroethane	10		9.472	95	70	130
Methyl tert-butyl ether(MTBE)	10		9.505	95	70	130
Methyl Ethyl Ketone	10		9.082	91	70	130
Cis-1,2-Dichloroethene	10		9.583	96	70	130
Hexane	10		9.545	95	70	130
Chloroform	10		9.437	94	70	130
Ethyl acetate	10		8.240	82	70	130
Tetrahydrofuran	10		9.711	97	70	130
1,2-Dichloroethane	10		9.518	95	70	130
1,1,1-Trichloroethane	10		9.031	90	70	130
Benzene	10		9.400	94	70	130
Carbon Tetrachloride	10		9.484	95	70	130
Cyclohexane	10		8.882	89	70	130
1,2-dichloropropane	10		9.554	96	70	130
Bromodichloromethane	10		9.565	96	70	130
Trichloroethene	10		9.491	95	70	130
1,4-Dioxane	10		9.136	91	70	130
Heptane	10		9.591	96	70	130
cis-1,3-Dichloropropene	10		9.685	97	70	130
4-Methyl-2-pentanone(MIBK)	10		9.672	97	70	130
trans-1,3-Dichloropropene	10		9.522	95	70	130
1,1,2-Trichloroethane	10		9.589	96	70	130
Toluene	10		9.536	95	70	130
Dibromochloromethane	10		9.646	96	70	130
2-Hexanone(MBK)	10		10.12	101	70	130
1,2-Dibromoethane(EDB)	10		9.427	94	70	130

AIR ICV RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCM85136

ICV - Client Id: ICV_CHEM20_1010

COMPOUND	SPIKE ADDED (ppbv)		ICV CONCENTRATION (ppbv)	ICV % REC #	QC. LIMITS REC.	
Tetrachloroethene	10		10.27	103	70	130
1,1,1,2-Tetrachloroethane	10		10.37	104	70	130
Chlorobenzene	10		9.284	93	70	130
Ethylbenzene	10		9.485	95	70	130
m,p-Xylene	20		18.92	95	70	130
Bromoform	10		9.080	91	70	130
Styrene	10		9.428	94	70	130
1,1,2,2-Tetrachloroethane	10		8.848	88	70	130
o-Xylene	10		9.409	94	70	130
Isopropylbenzene	10		10.21	102	70	130
4-Ethyltoluene	10		9.195	92	70	130
1,3,5-Trimethylbenzene	10		9.598	96	70	130
1,2,4-Trimethylbenzene	10		9.425	94	70	130
Benzyl chloride	10		9.159	92	70	130
1,3-Dichlorobenzene	10		8.900	89	70	130
1,4-Dichlorobenzene	10		8.816	88	70	130
sec-Butylbenzene	10		10.10	101	70	130
4-Isopropyltoluene	10		9.888	99	70	130
1,2-Dichlorobenzene	10		8.687	87	70	130
n-Butylbenzene	10		9.752	98	70	130
1,2,4-Trichlorobenzene	10		10.21	102	70	130
Hexachlorobutadiene	10		10.22	102	70	130

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\10OCT\10\
Data File : 1010_17.D
Acq On : 10 Oct 2022 6:47 pm
Operator :
Sample : 10ppbv LCS ; AirTO1502A
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 11 09:05:48 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_1010.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 11 09:04:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.528	130	258212	10.000	ng		0.00
37) 1,4-Difluorobenzene	8.682	114	953852	10.000	ng		0.00
54) Chlorobenzene-d5	11.135	82	458458	10.000	ng		0.00
81) Bromochloromethane(sim)	7.533	130	280275	10.000	ng	#	0.00
96) 1,4-Difluorobenzene(sim)	8.682	114	953423	10.000	ng		0.00
106) Chlorobenzene-d5(sim)	11.135	82	458458	10.000	ng		0.00
System Monitoring Compounds							
63) % Bromofluorobenzene	11.966	95	635979	9.942	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.40%				
Target Compounds							Qvalue
2) Propylene	4.078	41	318948	9.268	ppbv		99
3) Dichlorodifluoromethane	4.153	85	660568	9.484	ppbv		99
4) Chloromethane	4.304	50	324553	8.907	ppbv		100
5) 1,2-Dichlorotetrafluor...	4.401	85	564565	9.279	ppbv		99
6) Vinyl Chloride	4.509	62	252133	9.232	ppbv		99
7) 1,3-Butadiene	4.638	54	249476	9.443	ppbv		97
8) Bromomethane	4.865	94	200710	9.238	ppbv		100
9) Chloroethane	5.005	64	104631	9.545	ppbv		98
10) Vinyl Bromide	5.285	106	207923	9.537	ppbv		99
11) Ethanol	5.123	45	136121	10.943	ppbv		98
12) Acetone	5.501	43	553064	9.011	ppbv		100
13) Trichlorofluoromethane	5.598	101	645528	9.247	ppbv		99
14) Isopropylalcohol	5.695	45	747444	9.940	ppbv		100
15) Acrylonitrile	5.803	53	276422	9.946	ppbv		97
16) 1,1-Dichloroethene	6.055	61	439032	9.536	ppbv		99
17) Methylene Chloride	6.124	49	427087	8.938	ppbv		99
18) tert-butyl alcohol	6.158	59	658293	9.893	ppbv#		91
19) Allyl Chloride	6.210	41	472677	7.628	pbv #		85
20) Carbon Disulfide	6.356	76	629039	9.571	ppbv		99
21) Trichlorotrifluoroethane	6.296	101	543597	9.599	ppbv		99
22) Trans-1,2-Dichloroethene	6.752	61	436828	9.363	ppbv		99
23) 1,1-Dichloroethane	6.886	63	516221	9.471	ppbv		100
24) Methyl tert-butyl ethe...	6.941	73	622732	9.505	ppbv		99
25) Vinyl Acetate	6.965	43	2078705	10.098	ppbv#		100
26) Methyl Ethyl Ketone	7.146	43	827175	9.082	ppbv		95
27) Cis-1,2-Dichloroethene	7.413	61	419244	9.583	ppbv		98
28) Hexane	7.528	57	521177	9.545	ppbv		98
29) Chloroform	7.601	83	525383	9.437	ppbv		100
30) Ethyl acetate	7.538	61	100682	8.240	ppbv		99
31) Tetrahydrofuran	7.871	42	468709	9.711	ppbv		99
32) 1,2-Dichloroethane	8.069	62	406053	9.518	ppbv		99
33) 1,1,1-Trichloroethane	8.226	97	558446	9.031	ppbv		99
34) Benzene	8.501	78	712260	9.400	ppbv		100
35) Carbon Tetrachloride	8.592	117	645644	9.484	ppbv		99
36) Cyclohexane	8.671	84	272087	8.882	ppbv		99
38) 1,2-dichloropropane	8.977	63	356284	9.554	ppbv		98
39) Bromodichloromethane	9.090	83	557079	9.565	ppbv		99
40) Trichloroethene	9.112	130	401243	9.491	ppbv		99
41) 2,2,4-trimethylpentane	9.112	57	1797926	10.211	ppbv		99
42) 1,4-Dioxane	9.124	88	150779	9.135	ppbv		97
43) Methyl methacrylate	9.180	69	261010	9.756	ppbv		99
44) Heptane	9.237	43	780278	9.591	ppbv		100

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\10OCT\10\
Data File : 1010_17.D
Acq On : 10 Oct 2022 6:47 pm
Operator :
Sample : 10ppbv LCS ; AirTO1502A
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 11 09:05:48 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_1010.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 11 09:04:50 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45)	cis-1,3-Dichloropropene	9.588	75	422018	9.685	ppbv	100
46)	4-Methyl-2-pentanone(M...	9.610	43	1031127	9.672	ppbv	99
47)	trans-1,3-Dichloropropene	9.871	75	395648	9.522	ppbv	99
48)	1,1,2-Trichloroethane	9.984	97	324351	9.589	ppbv	99
49)	Toluene	10.154	91	931305	9.536	ppbv	99
50)	Dibromochloromethane	10.401	129	685851	9.646	ppbv	99
51)	2-Hexanone(MBK)	10.278	43	1026154	10.123	ppbv	98
52)	1,2-Dibromoethane(EDB)	10.547	107	546309	9.427	ppbv	100
53)	Tetrachloroethene	10.780	166	574311	10.272	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.146	131	516911	10.372	ppbv	98
56)	Chlorobenzene	11.156	112	792762	9.284	ppbv	100
57)	Ethylbenzene	11.351	91	1202862	9.485	ppbv	99
58)	m,p-Xylene	11.443	91	1878835	18.924	ppbv	99
59)	Bromoform	11.525	173	616070	9.080	ppbv	99
60)	Styrene	11.648	104	739504	9.428	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.699	83	664216	8.848	ppbv	98
62)	o-Xylene	11.709	91	969715	9.409	ppbv	100
64)	2-Chlorotoluene	12.314	126	436987	10.385	ppbv	97
65)	Isopropylbenzene	12.027	105	1552539	10.205	ppbv	100
66)	n-Propylbenzene	12.314	120	460659	10.435	ppbv	99
67)	4-Ethyltoluene	12.396	105	1430058	9.195	ppbv	99
68)	1,3,5-Trimethylbenzene	12.427	105	1221443	9.598	ppbv	100
69)	1,2,4-Trimethylbenzene	12.684	105	1230069	9.425	ppbv	99
70)	tert-butylbenzenze	12.684	119	1532392	10.249	ppbv	99
71)	Benzyl chloride	12.776	91	888966	9.159	ppbv	100
72)	1,3-Dichlorobenzene	12.797	146	846499	8.900	ppbv	100
73)	1,4-Dichlorobenzene	12.838	146	791252	8.816	ppbv	99
74)	sec-Butylbenzene	12.848	105	1941435	10.098	ppbv	100
75)	4-Isopropyltoluene	12.930	119	1848420	9.888	ppbv	100
76)	1,2-Dichlorobenzene	13.053	146	781783	8.687	ppbv	98
77)	n-Butylbenzene	13.197	91	1445038	9.752	ppbv	99
78)	1,2,4-Trichlorobenzene	14.233	180	575051	10.207	ppbv	97
79)	Naphthalene	14.336	128	1372879	10.253	ppbv#	100
80)	Hexachlorobutadiene	14.572	225	702536	10.218	ppbv	99
82]	1,2-Dichlorotetrafluor...	4.401	85	564199	9.126	ppbv	99
83]	Vinyl Chloride(sim)	4.515	62	270326	8.822	ppbv	100
84]	Bromomethane(sim)	4.865	94	200710	9.205	ppbv	100
85]	Trichlorofluoromethane...	5.603	101	686376	9.959	ppbv#	100
86]	1,2-Dichloroethane(sim)	8.069	62	406053	9.438	ppbv	99
87]	1,1,1-Trichloroethane(...	8.231	97	624529	9.908	ppbv#	100
88]	Benzene(sim)	8.501	78	712877	8.915	ppbv	100
89]	Carbon Tetrachloride(sim)	8.597	117	682498	10.417	ppbv	100
90]	1,1-Dichloroethene(sim)	6.055	61	439032	8.937	ppbv	99
91]	Trichlorotrifluoroetha...	6.302	101	581716	9.929	ppbv#	100
92]	Trans-1,2-Dichloroethe...	6.752	61	436828	9.029	ppbv	99
93]	1,1-Dichloroethane(sim)	6.891	63	557272	9.611	ppbv	100
94]	Cis-1,2-Dichloroethene...	7.413	61	419244	9.335	ppbv	98
95]	Chloroform(sim)	7.606	83	554679	9.618	ppbv	100
97]	1,2-dichloropropane(sim)	8.982	63	382841	8.870	ppbv	100
98]	Bromodichloromethane(sim)	9.090	83	557079	9.270	ppbv	99
99]	Trichloroethene(sim)	9.118	130	435625	9.466	ppbv	100
100]	1,4-Dioxane(sim)	9.124	88	150779	8.820	ppbv	97
101]	cis-1,3-Dichloropropen...	9.593	75	463845	9.775	ppbv	100
102]	1,1,2-Trichloroethane(...	9.984	97	324351	9.313	ppbv	99
103]	Dibromochloromethane(sim)	10.407	129	748409	10.279	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\10OCT\10\
Data File : 1010_17.D
Acq On : 10 Oct 2022 6:47 pm
Operator :
Sample : 10ppbv LCS ; AirTO1502A
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 11 09:05:48 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_1010.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 11 09:04:50 2022
Response via : Initial Calibration

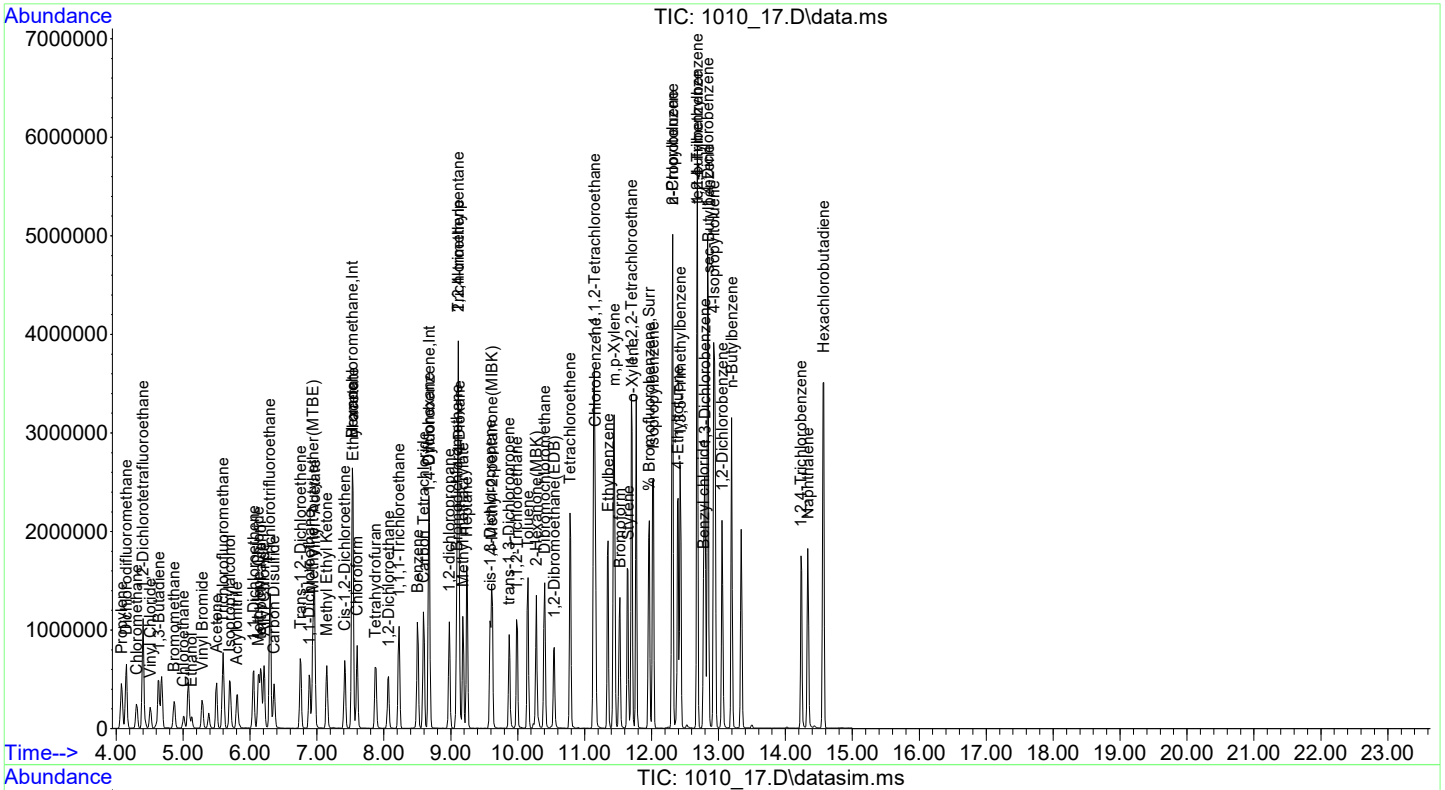
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104] 1,2-Dibromoethane(EDB)...	10.547	107	546309	9.604	ppbv	100
105] Tetrachloroethene(sim)	10.785	166	661008	10.331	ppbv	100
107] Bromoform(sim)	11.531	173	719071	9.465	ppbv	100
108] m,p-Xylene(sim)	11.443	91	1896716	18.886	ppbv	99
109] 1,1,2,2-Tetrachloroeth...	11.705	83	702780	8.377	ppbv	100
110] n-Propylbenzene(sim)	12.314	120	460659	10.359	ppbv	99
111] tert-butylbenzenze(sim)	12.679	119	1658202	10.163	ppbv	99
112] Benzyl chloride(sim)	12.776	91	888966	10.261	ppbv	100
113] 1,3-Dichlorobenzene(sim)	12.802	146	964642	8.724	ppbv	97
114] 1,4-Dichlorobenzene(sim)	12.838	146	791252	7.878	ppbv	99
115] sec-Butylbenzene(sim)	12.843	105	2122584	10.159	ppbv	100
116] 4-Isopropyltoluene(sim)	12.930	119	1848725	10.449	ppbv	100
117] 1,2-Dichlorobenzene(sim)	13.059	146	869786	7.993	ppbv	100
118] n-Butylbenzene(sim)	13.197	91	1445038	10.209	ppbv	99
119] 1,2,4-Trichlorobenzene...	14.239	180	662104	9.055	ppbv	100
120] Naphthalene(sim)	14.336	128	1372879	9.714	ppbv	100
121] Hexachlorobutadiene(sim)	14.567	225	876075	7.972	ppbv	100

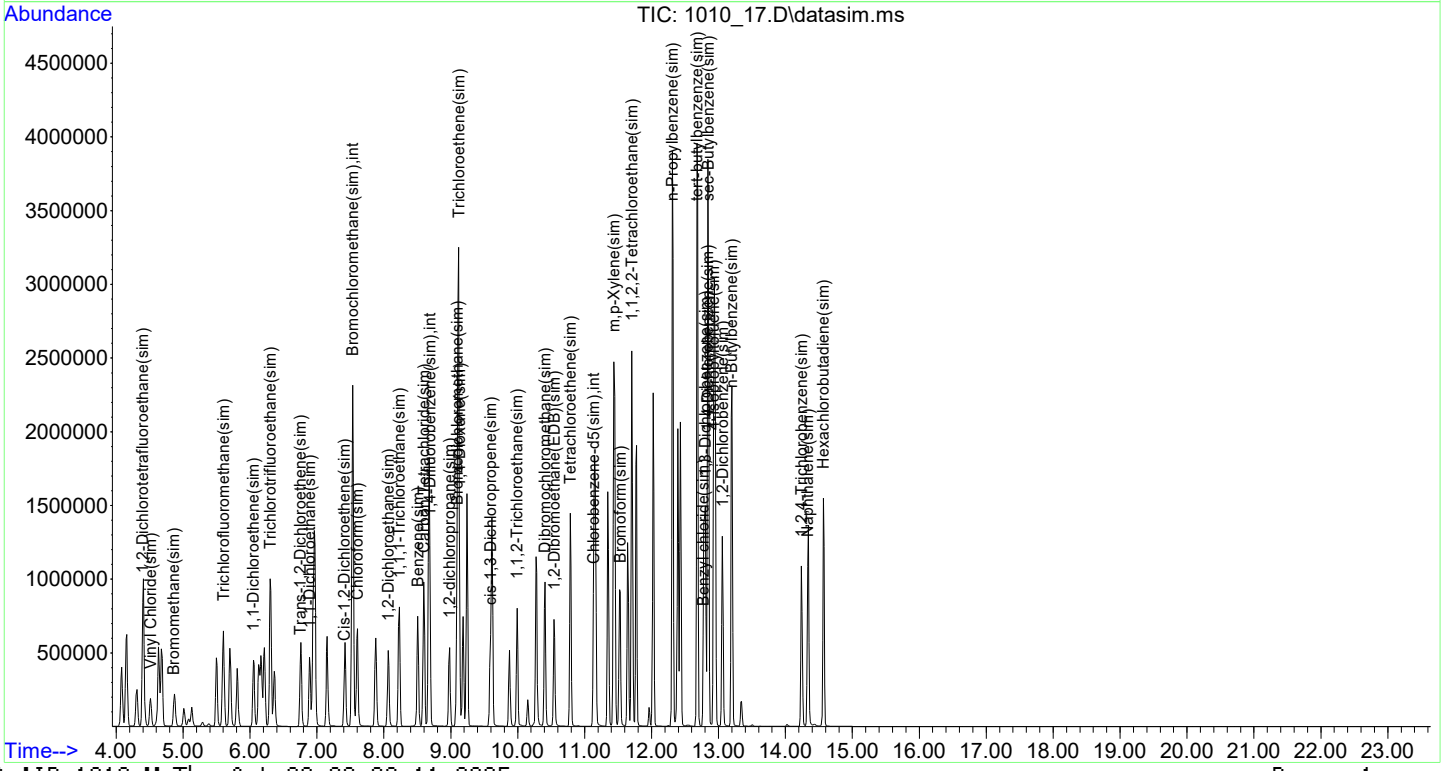
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2022\CHEM20\10OCT\10\
Data File : 1010_17.D
Acq On : 10 Oct 2022 6:47 pm
Operator :
Sample : 10ppbv LCS ; AirTO1502A
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 11 09:05:48 2022
Quant Method : H:\AIR2022\CHEM20\Methods\20_AIR_1010.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 11 09:04:50 2022
Response via : Initial Calibration





ATTACHMENT D

ANNOTATED SUMMARY FORMS

1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-12

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCM85136 Lab Sample ID: CM85136

Canister: 11287 Lab File ID: 1114_34.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 11/14/22

Purge Volume: 200 (cc) Date Analyzed: 11/15/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	1.08	J	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.481	J	0.202	0.202	r
74-87-3	Chloromethane	0.485	UJ	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	UJ	0.452	0.452	r
75-00-3	Chloroethane	0.379	UJ	0.379	0.379	r
64-17-5	Ethanol	4.22	J	0.531	0.531	r
67-64-1	Acetone	52.7	J	0.421	0.421	
75-69-4	Trichlorofluoromethane	0.237	J	0.178	0.178	r
67-63-0	Isopropylalcohol	1.07	J	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	UJ	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	UJ	0.863	0.863	r
75-15-0	Carbon Disulfide	2.08	J	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	UJ	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	2.13	J	0.339	0.339	r
110-54-3	Hexane	0.864	J	0.284	0.284	r
67-66-3	Chloroform	5.41	J	0.205	0.205	r
141-78-6	Ethyl acetate	0.278	UJ	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	UJ	0.339	0.339	r
71-43-2	Benzene	0.313	UJ	0.313	0.313	r
110-82-7	Cyclohexane	0.291	UJ	0.291	0.291	r
142-82-5	Heptane	0.779	J	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.486	J	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	UJ	0.221	0.221	r
108-88-3	Toluene	0.719	J	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	UJ	0.244	0.244	r
127-18-4	Tetrachloroethene	5.45	J	0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	UJ	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	UJ	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	UJ	0.230	0.230	r
179601-23-1	m,p-Xylene	0.848	J	0.230	0.230	r
100-42-5	Styrene	0.235	UJ	0.235	0.235	r
95-47-6	o-Xylene	0.346	J	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	UJ	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.500	J	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	UJ	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.929	J	0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-12

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCM85136 Lab Sample ID: CM85136

Canister: 11287 Lab File ID: 1114_34.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 11/14/22

Purge Volume: 200 (cc) Date Analyzed: 11/15/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	UJ	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	UJ	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	UJ	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	UJ	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	UJ	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.098	J	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	UJ	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	UJ	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	UJ	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	UJ	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	UJ	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	UJ	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	UJ	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	UJ	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	UJ	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	UJ	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	UJ	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	UJ	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	UJ	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	UJ	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	UJ	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	UJ	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	UJ	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	UJ	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	UJ	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	UJ	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	UJ	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/5/2025

1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-12 5X

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCM85136 Lab Sample ID: CM85136 5X

Canister: 11287 Lab File ID: 1114_28.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 11/14/22

Purge Volume: 200 (cc) Date Analyzed: 11/15/22

Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
67-64-1	Acetone	48.2	J	2.11	2.11	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

JR 12/5/2025

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-11

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCM85136 Lab Sample ID: CM85137

Canister: 28614 Lab File ID: 1114_13.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 11/14/22

Purge Volume: 200 (cc) Date Analyzed: 11/14/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	UJ	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.504	J	0.202	0.202	r
74-87-3	Chloromethane	0.638	J	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	UJ	0.452	0.452	r
75-00-3	Chloroethane	0.379	UJ	0.379	0.379	r
64-17-5	Ethanol	70.0	J	0.531	0.531	r
67-64-1	Acetone	13.9	J	0.421	0.421	r
67-63-0	Isopropylalcohol	4.17	J	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	UJ	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	UJ	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	UJ	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	UJ	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.369	J	0.339	0.339	r
110-54-3	Hexane	0.284	UJ	0.284	0.284	r
141-78-6	Ethyl acetate	3.00	J	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	UJ	0.339	0.339	r
71-43-2	Benzene	0.318	J	0.313	0.313	r
110-82-7	Cyclohexane	0.291	UJ	0.291	0.291	r
142-82-5	Heptane	0.244	UJ	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	UJ	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	UJ	0.221	0.221	r
108-88-3	Toluene	0.590	J	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	UJ	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	UJ	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	UJ	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	UJ	0.230	0.230	r
100-42-5	Styrene	0.235	UJ	0.235	0.235	r
95-47-6	o-Xylene	0.230	UJ	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	UJ	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	UJ	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	UJ	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	UJ	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	UJ	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	UJ	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	UJ	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.192	J	0.178	0.178	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

CLIENT ID

AIR ANALYSIS DATA SHEET

IA-11

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCM85136 Lab Sample ID: CM85137

Canister: 28614 Lab File ID: 1114_13.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 11/14/22

Purge Volume 200 (cc) Date Analyzed: 11/14/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	UJ	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	UJ	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.068	J	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	UJ	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	UJ	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	UJ	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	UJ	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	UJ	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	UJ	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	UJ	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	UJ	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	UJ	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	UJ	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	UJ	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	UJ	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	UJ	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	UJ	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.107	J	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	UJ	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.296	J	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	UJ	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	UJ	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.170	J	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	UJ	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	UJ	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	UJ	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	UJ	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	UJ	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/5/2025

1

CLIENT ID

AIR ANALYSIS DATA SHEET

Client:	ACT	Lab:	Phoenix Env. Labs	OA-2	
SDG No.:	GCM85136			Lab Sample ID:	CM85138
Canister:	11257			Lab File ID:	1114_15.D
Instrument:	CHEM39	Column:	ΓX-1 ; #10157	Date Received:	11/14/22
Purge Volume	200 (cc)			Date Analyzed:	11/14/22
Matrix:	AIR			Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	UJ	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.479	J	0.202	0.202	r
74-87-3	Chloromethane	0.576	J	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	UJ	0.452	0.452	r
75-00-3	Chloroethane	0.379	UJ	0.379	0.379	r
64-17-5	Ethanol	14.1	J	0.531	0.531	r
67-64-1	Acetone	4.29	J	0.421	0.421	r
67-63-0	Isopropylalcohol	2.29	J	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	UJ	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	UJ	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	UJ	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	UJ	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	UJ	0.339	0.339	r
110-54-3	Hexane	0.284	UJ	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	UJ	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	UJ	0.339	0.339	r
71-43-2	Benzene	0.313	UJ	0.313	0.313	r
110-82-7	Cyclohexane	0.291	UJ	0.291	0.291	r
142-82-5	Heptane	0.244	UJ	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	UJ	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	UJ	0.221	0.221	r
108-88-3	Toluene	0.520	J	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	UJ	0.244	0.244	r
127-18-4	Tetrachloroethene	0.280	J	0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	UJ	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	UJ	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	UJ	0.230	0.230	r
100-42-5	Styrene	0.235	UJ	0.235	0.235	r
95-47-6	o-Xylene	0.230	UJ	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	UJ	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	UJ	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	UJ	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	UJ	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	UJ	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	UJ	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	UJ	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: OA-2

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCM85136 Lab Sample ID: CM85138

Canister: 11257 Lab File ID: 1114_15.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 11/14/22

Purge Volume 200 (cc) Date Analyzed: 11/14/22

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-69-4	Trichlorofluoromethane(sim)	0.195	J	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	UJ	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	UJ	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.067	J	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	UJ	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	UJ	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	UJ	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	UJ	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	UJ	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	UJ	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	UJ	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	UJ	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.055	J	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	UJ	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	UJ	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	UJ	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	UJ	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	UJ	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	UJ	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.268	J	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	UJ	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	UJ	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	UJ	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	UJ	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	UJ	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	UJ	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	UJ	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	UJ	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/5/2025

December 8, 2025

Mr. Jason Stewart
Advanced Cleanup Technologies
228 Park Ave S PMB 34864
New York, New York 10003

Re: Data Usability Summary Report – Phoenix Environmental Laboratories, Inc. – GCO73252 V1

Dear Mr. Stewart:

The evaluation of analytical data by Phoenix Environmental Laboratories for project 9268-BXNY, which were reported in a single data package under Job No. GCO73252 V1 has been completed. The following samples were reported.

IA-4 IA-3 IA-7

Analysis was performed in accordance with EPA Method TO-15 (volatile organics). The review was performed to the extent possible, in accordance with the analytical method, and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. National Functional Guidelines for Organic Data Review was consulted as needed. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	No – see Documentation Section
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

- The result for ethanol in IA-4 is qualified as estimated (J-) due to low recovery in the laboratory control sample (LCS).
- The results for tetrahydrofuran (undiluted analysis) in IA-3, acetone and tetrahydrofuran (undiluted analysis) in IA-7 are qualified as estimated (J) because the concentration is outside the calibration range.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C. Annotated Summary Forms are included in Attachment D detailing qualifications resulting from the data review effort.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
    - Method, instrument blanks
    - Clean canister certification
    - Field blanks
    - Surrogate recoveries
    - LCS recoveries
    - Internal standard area response
    - Duplicates
    - Analyte Identification

- Instrument related quality control data:
    - Instrument tunes
    - Calibration summaries

The following sections of the report detail only quality control exceedances that impacted results. Where a quality control item exceeded control limits but there is no impact to the samples results, these are not detailed in the report.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package, with the following exceptions:

- The data package does not include summary forms and raw data for the second source initial calibration verification (ICV) standard. The laboratory was contacted and provided the ICV data and is included in attachment C.
- Calibration data for the clean canister certification analysis is not included in the data package.

The following documentation issues were observed during the review:

- Results for ethanol, acetone, isopropyl alcohol, and hexane in all samples are flagged 'S' which the data deliverable identifies this flag as 'This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.' Where the sample detections are greater than five times the reporting limit, the validator removed the 'S' qualifier.
- The data package documents the sample collection date as August 10, 2023; however, the COC indicates a collection data of August 9, 2023.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of August 9, 2023. The samples were received on August 11, 2023. Samples were received intact and analyzed within the method specified hold time.

A. Volatile Organics

1. Laboratory Control Sample (LCS)

Two LSCs were prepared and analyzed with the sample. The LCS is evaluated using control limit of 70-130%R. All recoveries are acceptable, with the following exceptions:

Analyte	LCS %R	Affected Sample	Qualifier Applied
CO71323 LCS			
Ethanol	66	IA-4	J-

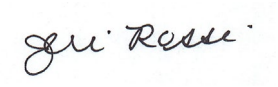
*The summary form provided by the laboratory reports LCS recoveries based on the full scan analysis. The validator reviewed the raw data to determine the recoveries in the SIM analysis and recoveries are acceptable. The result for ethanol in IA-4 is qualified as estimated (J-) due to low recovery in the LCS.

2. Compound Quantitation

The results for tetrahydrofuran (undiluted analysis) in IA-3, acetone and tetrahydrofuran (undiluted analysis) in IA-7 are qualified as estimated (J) because the concentration is outside the calibration range. Results from the diluted analysis should be used.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,



Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

CHAIN OF CUSTODY RECORD
AIR ANALYSES

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860-645-1102 • Fax: 860-645-0823
ACT

860-645-1102
email: greg@phoenixlabs.com

P.O. #

Data Delivery:
☐ Fax #:
☑ Email:
☐ Phone #:

Report to:	Ray Buzeta	Project Name:	9628- BXNY	Data Format: (Circle) Equis (Excel) Other:	
Customer:	Advanced Cleanup Technologies, Inc.	Invoice to:	Karen Friedman	Requested Deliverable: RCP (ASP CAT B)	
Address:	228 Park Ave S PMB 34864			MCP NJ Deliverables	
14905	New York, New York 10003	Sampled by:	Tim Yung	Quote Number:	

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH	
	THIS SECTION FOR LAB USE ONLY												MATRIX			ANALYSES		
73252	IA-4	28570	6.0L	-30	-11	2854	3.01	1425	0445	8/9/23	-30	-10	X			X		
73253	IA-3	23348	6.0L	-30	-9	2860	3.17	1430	0910	8/9/23	-30	-9	X			X		
73254	IA-7	489	6.0L	-30	-10	2988	3.28	1420	0900	8/9/23	-30	-7	X			X		
								↑	↑									
								8/9/23	8/10/23									

Relinquished by:	Accepted by:	Date:	Time:	
	ZM	8.11.23	941	I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:
ZM		8-11-23	1521	Signature: Date: 8/10/23

State Where Samples Collected: Bronx, NY

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

(3) - 6.0L 24 hr

Turnaround Time:
1 Day* ☐
2 Day* ☐
3 Day* ☐
4 Day* ☐
5 Day* ☐
Standard ☒
*SURCHARGES MAY APPLY

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air: Residential	Indoor Air: Residential	Vapor Intrusion	Indoor Air Residential	Indoor Air Residential
TAC RES	Ind/Commercial	Ind/Commercial		Non-residential	Industrial
SVVC I/C	Soil Gas: Residential	Soil Gas: Residential			Sub-slab Residential
SVVC RES	Ind/Commercial	Ind/Commercial			Industrial
GWV I/C					
GWV CES					

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCO73252

LCS - Client Id: CO71323 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		9.686	97	70	130
Dichlorodifluoromethane	10		10.49	105	70	130
Chloromethane	10		10.12	101	70	130
1,2-Dichlorotetrafluoroethane	10		10.44	104	70	130
Vinyl Chloride	10		10.02	100	70	130
1,3-Butadiene	10		10.33	103	70	130
Bromomethane	10		9.861	99	70	130
Chloroethane	10		9.859	99	70	130
Ethanol	10		6.621	66 *	70	130
Acetone	10		9.984	100	70	130
Trichlorofluoromethane	10		10.02	100	70	130
Isopropylalcohol	10		9.632	96	70	130
Acrylonitrile	10		9.573	96	70	130
1,1-Dichloroethene	10		9.953	100	70	130
Methylene Chloride	10		9.926	99	70	130
Carbon Disulfide	10		9.808	98	70	130
Trichlorotrifluoroethane	10		10.04	100	70	130
Trans-1,2-Dichloroethene	10		9.653	97	70	130
1,1-Dichloroethane	10		9.760	98	70	130
Methyl tert-butyl ether(MTBE)	10		10.21	102	70	130
Methyl Ethyl Ketone	10		9.660	97	70	130
Cis-1,2-Dichloroethene	10		9.977	100	70	130
Hexane	10		10.11	101	70	130
Chloroform	10		10.17	102	70	130
Ethyl acetate	10		7.794	78	70	130
Tetrahydrofuran	10		10.70	107	70	130
1,2-Dichloroethane	10		10.10	101	70	130
1,1,1-Trichloroethane	10		10.10	101	70	130
Benzene	10		9.960	100	70	130
Carbon Tetrachloride	10		10.28	103	70	130
Cyclohexane	10		9.410	94	70	130
1,2-dichloropropane	10		9.702	97	70	130
Bromodichloromethane	10		9.806	98	70	130
Trichloroethene	10		10.15	102	70	130
1,4-Dioxane	10		10.33	103	70	130
Heptane	10		9.884	99	70	130
cis-1,3-Dichloropropene	10		10.14	101	70	130
4-Methyl-2-pentanone(MIBK)	10		10.13	101	70	130
trans-1,3-Dichloropropene	10		10.43	104	70	130
1,1,2-Trichloroethane	10		9.932	99	70	130
Toluene	10		10.17	102	70	130
Dibromochloromethane	10		10.27	103	70	130
2-Hexanone(MBK)	10		10.19	102	70	130
1,2-Dibromoethane(EDB)	10		10.02	100	70	130

FORM III AIR

AIR ICV RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCO73252

ICV - Client Id: ICV_CHEM39_0523

COMPOUND	SPIKE ADDED (ppbv)		ICV CONCENTRATION (ppbv)	ICV % REC #	QC. LIMITS REC.	
Propylene	10		10.46	105	70	130
Dichlorodifluoromethane	10		10.66	107	70	130
Chloromethane	10		10.57	106	70	130
1,2-Dichlorotetrafluoroethane	10		10.70	107	70	130
Vinyl Chloride	10		10.63	106	70	130
1,3-Butadiene	10		10.77	108	70	130
Bromomethane	10		10.40	104	70	130
Chloroethane	10		10.41	104	70	130
Ethanol	10		9.480	95	70	130
Acetone	10		10.71	107	70	130
Trichlorofluoromethane	10		10.31	103	70	130
Isopropylalcohol	10		8.899	89	70	130
Acrylonitrile	10		10.20	102	70	130
1,1-Dichloroethene	10		10.37	104	70	130
Methylene Chloride	10		10.39	104	70	130
Carbon Disulfide	10		10.21	102	70	130
Trichlorotrifluoroethane	10		10.36	104	70	130
Trans-1,2-Dichloroethene	10		10.54	105	70	130
1,1-Dichloroethane	10		10.39	104	70	130
Methyl tert-butyl ether(MTBE)	10		10.82	108	70	130
Methyl Ethyl Ketone	10		10.37	104	70	130
Cis-1,2-Dichloroethene	10		10.90	109	70	130
Hexane	10		10.91	109	70	130
Chloroform	10		10.57	106	70	130
Ethyl acetate	10		8.404	84	70	130
Tetrahydrofuran	10		11.91	119	70	130
1,2-Dichloroethane	10		10.58	106	70	130
1,1,1-Trichloroethane	10		10.41	104	70	130
Benzene	10		10.61	106	70	130
Carbon Tetrachloride	10		10.50	105	70	130
Cyclohexane	10		9.886	99	70	130
1,2-dichloropropane	10		10.61	106	70	130
Bromodichloromethane	10		10.39	104	70	130
Trichloroethene	10		10.48	105	70	130
1,4-Dioxane	10		10.71	107	70	130
Heptane	10		10.79	108	70	130
cis-1,3-Dichloropropene	10		10.92	109	70	130
4-Methyl-2-pentanone(MIBK)	10		11.01	110	70	130
trans-1,3-Dichloropropene	10		11.33	113	70	130
1,1,2-Trichloroethane	10		10.53	105	70	130
Toluene	10		10.90	109	70	130
Dibromochloromethane	10		10.64	106	70	130
2-Hexanone(MBK)	10		11.30	113	70	130
1,2-Dibromoethane(EDB)	10		10.71	107	70	130

AIR ICV RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCO73252

ICV - Client Id: ICV_CHEM39_0523

COMPOUND	SPIKE ADDED (ppbv)		ICV CONCENTRATION (ppbv)	ICV % REC #	QC. LIMITS REC.	
Tetrachloroethene	10		10.65	107	70	130
1,1,1,2-Tetrachloroethane	10		9.795	98	70	130
Chlorobenzene	10		10.58	106	70	130
Ethylbenzene	10		10.92	109	70	130
m,p-Xylene	20		23.26	116	70	130
Bromoform	10		11.08	111	70	130
Styrene	10		11.68	117	70	130
1,1,2,2-Tetrachloroethane	10		11.04	110	70	130
o-Xylene	10		11.35	114	70	130
Isopropylbenzene	10		9.837	98	70	130
4-Ethyltoluene	10		11.90	119	70	130
1,3,5-Trimethylbenzene	10		10.49	105	70	130
1,2,4-Trimethylbenzene	10		11.52	115	70	130
Benzyl chloride	10		11.44	114	70	130
1,3-Dichlorobenzene	10		11.68	117	70	130
1,4-Dichlorobenzene	10		10.43	104	70	130
sec-Butylbenzene	10		9.927	99	70	130
4-Isopropyltoluene	10		9.877	99	70	130
1,2-Dichlorobenzene	10		11.02	110	70	130
n-Butylbenzene	10		9.925	99	70	130
1,2,4-Trichlorobenzene	10		9.415	94	70	130
Hexachlorobutadiene	10		9.432	94	70	130

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\05MAY\23\
Data File : 0523_20.D
Acq On : 24 May 2023 1:15 am
Operator :
Sample : 10ppb lcs ; to1503t
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 16:52:43 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0523.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu May 25 16:51:55 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	7.521	130	423878	10.000	ng		0.00
37) 1,4-Difluorobenzene	8.687	114	1517717	10.000	ng		0.00
54) Chlorobenzene-d5	11.155	82	720064	10.000	ng		0.00
81) Bromochloromethane(sim)	7.524	130	412681	10.000	ng	#	0.00
96) 1,4-Difluorobenzene(sim)	8.687	114	1517717	10.000	ng		0.00
106) Chlorobenzene-d5(sim)	11.155	82	720842	10.000	ng		0.00
System Monitoring Compounds							
63) % Bromofluorobenzene	11.989	95	1038163	10.147	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.50%				
Target Compounds							Qvalue
2) Propylene	4.033	41	221135	10.463	ppbv		98
3) Dichlorodifluoromethane	4.098	85	1086873	10.661	ppbv		99
4) Chloromethane	4.252	50	267694	10.574	ppbv		98
5) 1,2-Dichlorotetrafluor...	4.349	85	1110004	10.702	ppbv		98
6) Vinyl Chloride	4.463	62	363834	10.628	ppbv		100
7) 1,3-Butadiene	4.584	54	245076	10.774	ppbv		98
8) Bromomethane	4.828	94	423424	10.402	ppbv		99
9) Chloroethane	4.965	64	164381	10.411	ppbv		99
10) Vinyl Bromide	5.253	106	416390	10.158	ppbv		99
11) Ethanol	5.055	45	75927	9.480	ppbv		98
12) Acetone	5.437	43	455073	10.710	ppbv		97
13) Trichlorofluoromethane	5.565	101	1120203	10.305	ppbv		99
14) Isopropylalcohol	5.621	45	424785	8.899	ppbv		97
15) Acrylonitrile	5.768	53	220536	10.202	ppbv		99
16) 1,1-Dichloroethene	6.025	61	564995	10.373	ppbv		94
17) Methylene Chloride	6.103	49	336078	10.385	ppbv		89
18) tert-butyl alcohol	6.067	59	613038	10.187	ppbv		99
19) Allyl Chloride	6.186	41	321072	10.277	pbv #		91
20) Carbon Disulfide	6.341	76	1113637	10.209	ppbv		100
21) Trichlorotrifluoroethane	6.275	101	927111	10.363	ppbv		99
22) Trans-1,2-Dichloroethene	6.740	61	527031	10.535	ppbv		96
23) 1,1-Dichloroethane	6.871	63	664247	10.392	ppbv		99
24) Methyl tert-butyl ethe...	6.912	73	993805	10.816	ppbv		99
25) Vinyl Acetate	6.942	43	1489318	12.394	ppbv#		99
26) Methyl Ethyl Ketone	7.125	43	572709	10.368	ppbv		97
27) Cis-1,2-Dichloroethene	7.410	61	494727	10.899	ppbv		96
28) Hexane	7.529	57	523731	10.910	ppbv		97
29) Chloroform	7.592	83	862932	10.566	ppbv		100
30) Ethyl acetate	7.521	61	125593	8.404	ppbv		99
31) Tetrahydrofuran	7.870	42	326848	11.908	ppbv		94
32) 1,2-Dichloroethane	8.068	62	471215	10.577	ppbv		98
33) 1,1,1-Trichloroethane	8.227	97	857606	10.413	ppbv		99
34) Benzene	8.505	78	1242586	10.605	ppbv		99
35) Carbon Tetrachloride	8.600	117	960160	10.501	ppbv		99
36) Cyclohexane	8.678	84	484270	9.886	ppbv		96
38) 1,2-dichloropropane	8.990	63	476960	10.613	ppbv		97
39) Bromodichloromethane	9.102	83	940064	10.388	ppbv		100
40) Trichloroethene	9.119	130	682250	10.478	ppbv		100
41) 2,2,4-trimethylpentane	9.119	57	1651707	10.715	ppbv		99
42) 1,4-Dioxane	9.119	88	276285	10.706	ppbv		94
43) Methyl methacrylate	9.189	69	458296	10.866	ppbv		98
44) Heptane	9.249	43	554702	10.792	ppbv		93

Data Path : H:\AIR2023\CHEM39\05MAY\23\
Data File : 0523_20.D
Acq On : 24 May 2023 1:15 am
Operator :
Sample : 10ppb lcs ; to1503t
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 16:52:43 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0523.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu May 25 16:51:55 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45)	cis-1,3-Dichloropropene	9.603	75	743800	10.916	ppbv	99
46)	4-Methyl-2-pentanone(M...	9.611	43	743306	11.010	ppbv	98
47)	trans-1,3-Dichloropropene	9.892	75	673465	11.326	ppbv	100
48)	1,1,2-Trichloroethane	10.005	97	576608	10.532	ppbv	99
49)	Toluene	10.167	91	1659853	10.905	ppbv	99
50)	Dibromochloromethane	10.420	129	1186168	10.637	ppbv	99
51)	2-Hexanone(MBK)	10.286	43	719113	11.304	ppbv	98
52)	1,2-Dibromoethane(EDB)	10.561	107	974923	10.714	ppbv	100
53)	Tetrachloroethene	10.800	166	958979	10.652	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.170	131	728633	9.795	ppbv	100
56)	Chlorobenzene	11.186	112	1390186	10.583	ppbv	98
57)	Ethylbenzene	11.368	91	2108661	10.922	ppbv	100
58)	m,p-Xylene	11.466	91	3325176	23.263	ppbv	99
59)	Bromoform	11.550	173	1352467	11.081	ppbv	100
60)	Styrene	11.671	104	1326983	11.678	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.732	83	1270065	11.037	ppbv	99
62)	o-Xylene	11.732	91	1698047	11.349	ppbv	100
64)	2-Chlorotoluene	12.338	126	612723	9.941	ppbv	99
65)	Isopropylbenzene	12.050	105	2236666	9.837	ppbv	99
66)	n-Propylbenzene	12.338	120	656392	10.084	ppbv	99
67)	4-Ethyltoluene	12.422	105	2635400	11.898	ppbv	97
68)	1,3,5-Trimethylbenzene	12.460	105	1879491	10.488	ppbv	94
69)	1,2,4-Trimethylbenzene	12.711	105	2047631	11.520	ppbv	100
70)	tert-butylbenzenze	12.711	119	2088750	10.145	ppbv	100
71)	Benzyl chloride	12.817	91	1649611	11.443	ppbv	98
72)	1,3-Dichlorobenzene	12.832	146	1633299	11.680	ppbv	99
73)	1,4-Dichlorobenzene	12.870	146	1405532	10.425	ppbv	99
74)	sec-Butylbenzene	12.878	105	2763634	9.927	ppbv	100
75)	4-Isopropyltoluene	12.961	119	2533768	9.877	ppbv	100
76)	1,2-Dichlorobenzene	13.090	146	1396963	11.016	ppbv	99
77)	n-Butylbenzene	13.227	91	2173540	9.925	ppbv	98
78)	1,2,4-Trichlorobenzene	14.283	180	966625	9.415	ppbv	99
79)	Naphthalene	14.389	128	1961258	9.903	ppbv#	100
80)	Hexachlorobutadiene	14.640	225	1014362	9.432	ppbv	100
82]	1,2-Dichlorotetrafluor...	4.349	85	1109384	10.426	ppbv	98
83]	Vinyl Chloride(sim)	4.465	62	372248	10.761	ppbv	100
84]	Bromomethane(sim)	4.828	94	423424	10.238	ppbv	99
85]	Trichlorofluoromethane...	5.568	101	1136146	10.265	ppbv#	100
86]	1,2-Dichloroethane(sim)	8.068	62	471215	10.407	ppbv	98
87]	1,1,1-Trichloroethane(...	8.230	97	924744	10.560	ppbv#	99
88]	Benzene(sim)	8.505	78	1242893	9.840	ppbv	99
89]	Carbon Tetrachloride(sim)	8.603	117	958659	10.553	ppbv	100
90]	1,1-Dichloroethene(sim)	6.025	61	564995	10.219	ppbv	94
91]	Trichlorotrifluoroetha...	6.278	101	918166	10.154	ppbv#	99
92]	Trans-1,2-Dichloroethe...	6.740	61	527031	10.459	ppbv	96
93]	1,1-Dichloroethane(sim)	6.874	63	699804	10.302	ppbv	100
94]	Cis-1,2-Dichloroethene...	7.410	61	494727	10.689	ppbv	96
95]	Chloroform(sim)	7.595	83	887203	9.706	ppbv	99
97]	1,2-dichloropropane(sim)	8.984	63	495072	10.091	ppbv	97
98]	Bromodichloromethane(sim)	9.102	83	940064	9.776	ppbv	99
99]	Trichloroethene(sim)	9.122	130	676247	10.075	ppbv	99
100]	1,4-Dioxane(sim)	9.119	88	276285	11.295	ppbv	94
101]	cis-1,3-Dichloropropen...	9.599	75	778909	11.190	ppbv	100
102]	1,1,2-Trichloroethane(...	10.005	97	576608	9.878	ppbv	99
103]	Dibromochloromethane(sim)	10.423	129	1170412	10.399	ppbv	100

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\05MAY\23\
Data File : 0523_20.D
Acq On : 24 May 2023 1:15 am
Operator :
Sample : 10ppb lcs ; to1503t
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 16:52:43 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0523.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu May 25 16:51:55 2023
Response via : Initial Calibration

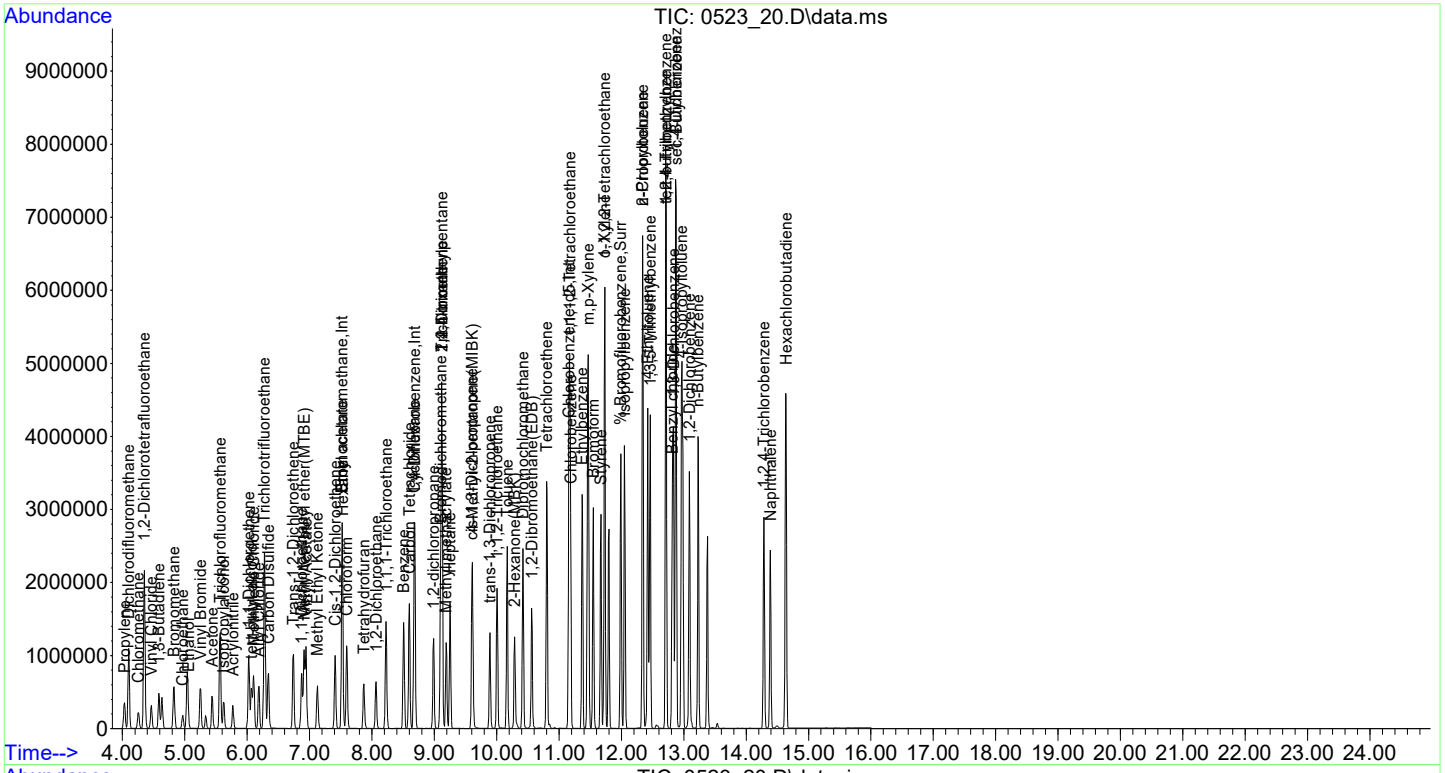
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104] 1,2-Dibromoethane(EDB)...	10.561	107	974923	10.529	ppbv	100
105] Tetrachloroethene(sim)	10.803	166	940321	10.026	ppbv	99
107] Bromoform(sim)	11.552	173	1286730	10.329	ppbv	100
108] m,p-Xylene(sim)	11.466	91	3333180	22.946	ppbv	100
109] 1,1,2,2-Tetrachloroeth...	11.727	83	1279548	10.105	ppbv	100
110] n-Propylbenzene(sim)	12.338	120	656392	9.575	ppbv	99
111] tert-butylbenzenze(sim)	12.714	119	2276904	10.228	ppbv#	99
112] Benzyl chloride(sim)	12.817	91	1648409	12.737	ppbv	98
113] 1,3-Dichlorobenzene(sim)	12.835	146	1618113	10.700	ppbv	99
114] 1,4-Dichlorobenzene(sim)	12.870	146	1405288	9.995	ppbv	99
115] sec-Butylbenzene(sim)	12.714	105	2211211	12.194	ppbv	99
116] 4-Isopropyltoluene(sim)	12.961	119	2533768	10.471	ppbv	100
117] 1,2-Dichlorobenzene(sim)	13.093	146	1468145	11.058	ppbv	99
118] n-Butylbenzene(sim)	13.227	91	2173540	10.898	ppbv	98
119] 1,2,4-Trichlorobenzene...	14.286	180	1001451	8.838	ppbv	100
120] Hexachlorobutadiene(sim)	14.640	225	1014287	8.146	ppbv	100

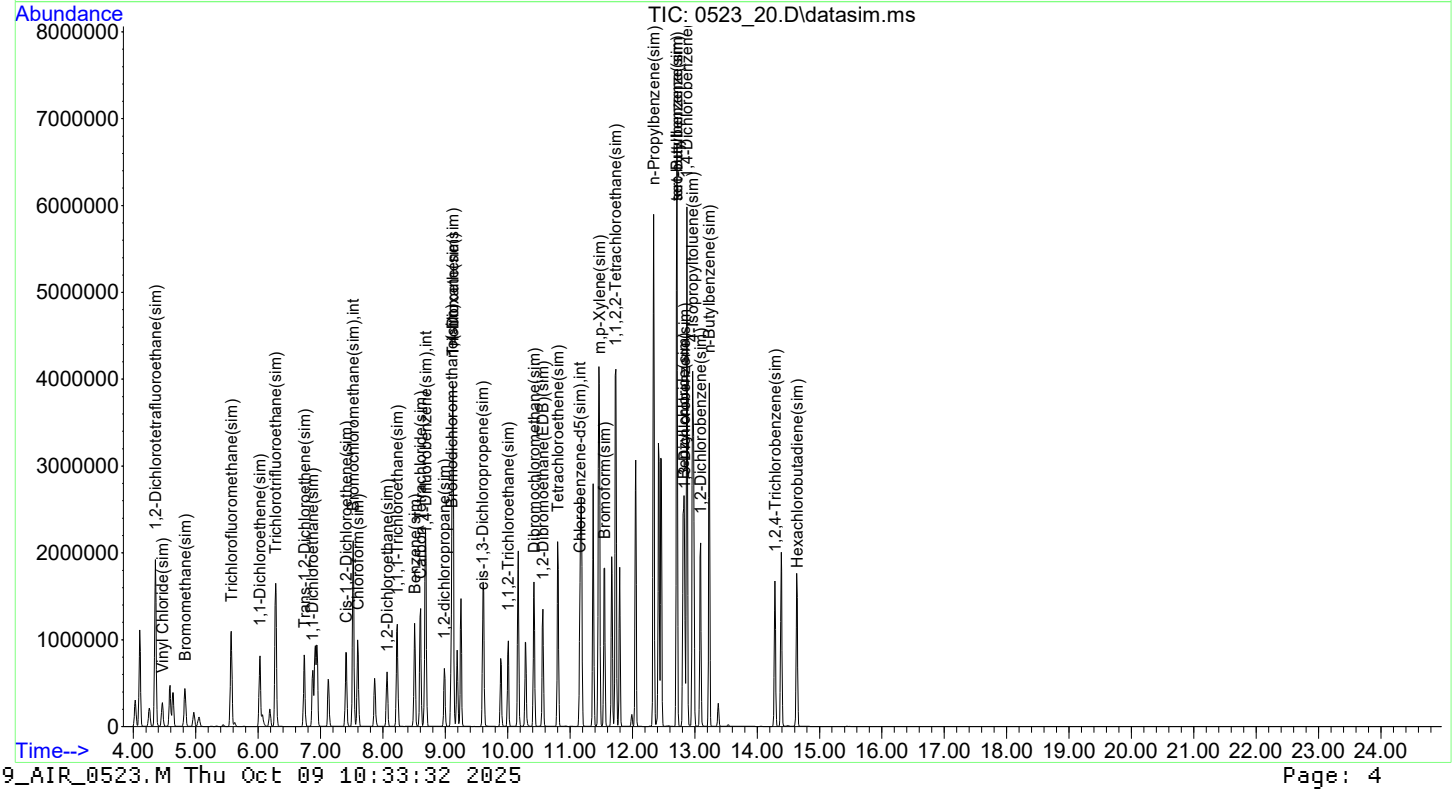
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\05MAY\23\
Data File : 0523_20.D
Acq On : 24 May 2023 1:15 am
Operator :
Sample : 10ppb lcs ; to1503t
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 16:52:43 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0523.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu May 25 16:51:55 2023
Response via : Initial Calibration





ATTACHMENT D

ANNOTATED SUMMARY FORMS

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-4

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCO73252 Lab Sample ID: CO73252

Canister: 28570 Lab File ID: 0811_13.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 08/11/23

Purge Volume 200 (cc) Date Analyzed: 08/11/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.471		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	9.67	J-	0.531	0.531	r
67-64-1	Acetone	18.6		0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.293		0.178	0.178	r
67-63-0	Isopropylalcohol	1.89	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	2.60		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	7.78		0.051	0.051	r
110-54-3	Hexane	1.74	S	0.284	0.284	r
67-66-3	Chloroform	0.605		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	27.1		0.339	0.339	r
71-43-2	Benzene	0.784		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
79-01-6	Trichloroethene	1.33		0.037	0.037	r
142-82-5	Heptane	0.397		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	3.66		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	2.61		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.531		0.230	0.230	r
179601-23-1	m,p-Xylene	2.18		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.862		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-4

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCO73252 Lab Sample ID: CO73252

Canister: 28570 Lab File ID: 0811_13.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 08/11/23

Purge Volume 200 (cc) Date Analyzed: 08/11/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
108-67-8	1,3,5-Trimethylbenzene	0.493		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.096		0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.078		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/8/2025

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-3

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCO73252 Lab Sample ID: CO73253

Canister: 23348 Lab File ID: 0816_08.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 08/11/23

Purge Volume 200 (cc) Date Analyzed: 08/16/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.454		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	18.6		0.531	0.531	r
67-64-1	Acetone	33.5		0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.315		0.178	0.178	r
67-63-0	Isopropylalcohol	2.94		0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	6.58		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	7.92		0.051	0.051	r
110-54-3	Hexane	2.84		0.284	0.284	r
67-66-3	Chloroform	0.515		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	45.0	J	0.339	0.339	
71-43-2	Benzene	1.05		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
79-01-6	Trichloroethene	1.42		0.037	0.037	r
142-82-5	Heptane	0.693		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	5.61		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	2.61		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.833		0.230	0.230	r
179601-23-1	m,p-Xylene	3.43		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	1.32		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	1.60		0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-3

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCO73252 Lab Sample ID: CO73253

Canister: 23348 Lab File ID: 0816_08.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 08/11/23

Purge Volume 200 (cc) Date Analyzed: 08/16/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
108-67-8	1,3,5-Trimethylbenzene	0.619		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.089		0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.080		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/8/2025

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-3 2.5X

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCO73252 Lab Sample ID: CO73253 2.5X

Canister: 23348 Lab File ID: 0816_09.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 08/11/23

Purge Volume 200 (cc) Date Analyzed: 08/16/23

Matrix: AIR Dilution Factor: 2.5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.506	U	0.506	0.506	
64-17-5	Ethanol	20.3	X	1.33	1.33	
67-64-1	Acetone	32.0	X	1.05	1.05	
67-63-0	Isopropylalcohol	3.13	X	1.02	1.02	
78-93-3	Methyl Ethyl Ketone	6.14	X	0.848	0.848	
156-59-2	Cis-1,2-Dichloroethene	7.43	X	0.126	0.126	
110-54-3	Hexane	2.50	X	0.710	0.710	
109-99-9	Tetrahydrofuran	43.2	D	0.848	0.848	r
71-43-2	Benzene	0.995	X	0.783	0.783	
79-01-6	Trichloroethene	1.36	X	0.093	0.093	
142-82-5	Heptane	0.669	X	0.610	0.610	
108-88-3	Toluene	5.20	X	0.664	0.664	
127-18-4	Tetrachloroethene	2.53	X	0.092	0.092	
100-41-4	Ethylbenzene	0.769	X	0.576	0.576	
179601-23-1	m,p-Xylene	3.01	X	0.576	0.576	
95-47-6	o-Xylene	1.18	X	0.576	0.576	
622-96-8	4-Ethyltoluene	1.33	X	0.509	0.509	
108-67-8	1,3,5-Trimethylbenzene	0.536	X	0.509	0.509	
75-01-4	Vinyl Chloride(sim)	0.195	U	0.195	0.195	
75-69-4	Trichlorofluoromethane(sim)	0.445	U	0.445	0.445	
56-23-5	Carbon Tetrachloride(sim)	0.080	U	0.080	0.080	
67-66-3	Chloroform(sim)	0.512	U	0.512	0.512	

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

JR 12/8/2025

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-7

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCO73252 Lab Sample ID: CO73254

Canister: 489 Lab File ID: 0816_10.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 08/11/23

Purge Volume 200 (cc) Date Analyzed: 08/16/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.449		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	36.6	S	0.531	0.531	r
67-64-1	Acetone	57.6	J	0.421	0.421	
75-69-4	Trichlorofluoromethane	0.413		0.178	0.178	r
67-63-0	Isopropylalcohol	4.01		0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	9.58		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	5.38		0.051	0.051	r
110-54-3	Hexane	5.36		0.284	0.284	r
67-66-3	Chloroform	0.457		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	68.1	J	0.339	0.339	
71-43-2	Benzene	1.74		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
79-01-6	Trichloroethene	1.02		0.037	0.037	r
142-82-5	Heptane	1.63		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	8.97		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	2.03		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	1.39		0.230	0.230	r
179601-23-1	m,p-Xylene	5.77		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	2.19		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-7

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCO73252 Lab Sample ID: CO73254

Canister: 489 Lab File ID: 0816_10.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 08/11/23

Purge Volume 200 (cc) Date Analyzed: 08/16/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
108-67-8	1,3,5-Trimethylbenzene	1.23		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.075		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

jr 12/8/2025

1

CLIENT ID

AIR ANALYSIS DATA SHEET

IA-7 2.5X

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCO73252 Lab Sample ID: CO73254 2.5X

Canister: 489 Lab File ID: 0816_11.D

Instrument: CHEM39 Column: ΓX-1 ; #10157 Date Received: 08/11/23

Purge Volume 200 (cc) Date Analyzed: 08/16/23

Matrix: AIR Dilution Factor: 2.5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.506	U	0.506	0.506	
64-17-5	Ethanol	42.2	X	1.33	1.33	
67-64-1	Acetone	58.9	DS	1.05	1.05	r
67-63-0	Isopropylalcohol	4.55	X	1.02	1.02	
78-93-3	Methyl Ethyl Ketone	9.64	X	0.848	0.848	
156-59-2	Cis-1,2-Dichloroethene	5.35	X	0.126	0.126	
110-54-3	Hexane	0.710	U	0.710	0.710	
109-99-9	Tetrahydrofuran	69.2	D	0.848	0.848	r
71-43-2	Benzene	1.70	X	0.783	0.783	
79-01-6	Trichloroethene	0.999	X	0.093	0.093	
142-82-5	Heptane	1.55	X	0.610	0.610	
108-88-3	Toluene	8.72	X	0.664	0.664	
127-18-4	Tetrachloroethene	1.99	X	0.092	0.092	
100-41-4	Ethylbenzene	1.31	X	0.576	0.576	
179601-23-1	m,p-Xylene	5.40	X	0.576	0.576	
95-47-6	o-Xylene	0.576	U	0.576	0.576	
108-67-8	1,3,5-Trimethylbenzene	1.14	X	0.509	0.509	
75-69-4	Trichlorofluoromethane(sim)	0.445	U	0.445	0.445	
56-23-5	Carbon Tetrachloride(sim)	0.080	U	0.080	0.080	
67-66-3	Chloroform(sim)	0.512	U	0.512	0.512	

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

JR 12/8/2025

December 8, 2025

Mr. Jason Stewart
Advanced Cleanup Technologies
228 Park Ave S PMB 34864
New York, New York 10003

Re: Data Usability Summary Report – Phoenix Environmental Laboratories, Inc. – GCP07983 V1

Dear Mr. Stewart:

The evaluation of analytical data by Phoenix Environmental Laboratories for project 9268-BXNY, which were reported in a single data package under Job No. GCP07983 V1 has been completed. The following samples were reported.

IA-17 OA-4 SS-1B

Analysis was performed in accordance with EPA Method TO-15 (volatile organics). The review was performed to the extent possible, in accordance with the analytical method, and "DER-10/ Technical Guidance for Site Investigation and Remediation". Professional judgment is applied as necessary and appropriate. National Functional Guidelines for Organic Data Review was consulted as needed. Qualifiers consistent with those defined by EPA Region 2 are applied as necessary and appropriate.

Below is the Data Usability Summary Report (DUSR) associated with these samples.

Data Usability Summary Report	
1. Is the data package complete as defined under the requirements for the most current DEC ASP Category B or USEPA CLP data deliverables?	No – see Documentation section
2. Have all holding times been met?	Yes
3. Do all the QC data; blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data fall within the protocol required limits and specifications?	No -see following sections
4. Have all of the data been generated using established and agreed upon analytical protocols?	Yes
5. Does an evaluation of the raw data confirm the results provided in the data summary sheet and the quality control verification forms?	Yes
6. Have the correct data qualifiers been used and are they consistent with the most current DEC ASP?	Yes

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheet from the data package been attached to the DUSR?	Yes

Overall Evaluation

Based on the data review effort, results are usable, with the following qualifications. For samples that are qualified as estimated (J-, UJ), detected results may be biased low. False negatives may exist in non-detect results. Sample results that are qualified as estimated (J+) may be biased high. For samples that are qualified as estimated with any combination of (J), (J-) and/or (J+), the (J) qualifier takes precedence and is applied to the sample result. It is not possible to determine the direction of the bias and the overall effect on the result.

- The results for carbon tetrachloride, trans-1,3-dichloropropene, dibromochloromethane, 1,1,1,2-tetrachloroethane and bromoform in all samples are qualified as estimated (J-, UJ) due to low response in the continuing calibration verification (CCV) standard.
- The result for ethanol in all samples is qualified as estimated (J-, UJ) due to low recovery in the laboratory control sample (LCS).
- The result for ethanol in IA-17 is qualified as estimated (J) because the reported concentration is outside the calibration range.
- The results for acetone in all samples are qualified as estimated (J+) because the sample concentration is less than ten times the acetone concentration in the clean canister concentration.

Qualifier definitions are provided in Attachment A. A copy of the chain of custody record is provided in Attachment B. Pages from the data package illustrating the exceedances and issues described in this validation report are included in Attachment C. Annotated Summary Forms are included in Attachment D detailing qualifications resulting from the data review effort.

The following components were reviewed, where applicable:

- Chain of Custody
- Receiving conditions
- Holding times
- Preservation
- Analyte lists
- Reporting limits
- Requested methods
- Units, and
- Sample related quality control data:
    - Method, instrument blanks
    - Clean canister certification
    - Field blanks

  - Surrogate recoveries
  - LCS recoveries
  - Internal standard area response
  - Duplicates
  - Analyte Identification
- Instrument related quality control data:
  - Instrument tunes
  - Calibration summaries

The following sections of the report detail only quality control exceedances that impacted results. Where a quality control item exceeded control limits but there is no impact to the samples results, these are not detailed in the report.

Documentation: A completeness review of the data package was performed, and the data package was determined to be a complete Category B data package, with the following exception:

- The data package does not include summary forms and raw data for the second source initial calibration verification (ICV) standard. The laboratory was contacted and provided the ICV data and is included in attachment C.

The following documentation issues were observed during the review:

- Results for ethanol, acetone, isopropyl alcohol, and hexane in all samples are flagged 'S' which the data deliverable identifies this flag as 'This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.' Where the sample detections are greater than five times the reporting limit, the validator removed the 'S' qualifier.

Holding Times, Preservation, Sample Integrity:

A copy of the applicable chain of custody (COC) record was included in the data package, documenting sample collection date of September 21, 2023. The samples were received on September 25, 2023. Samples were received intact and analyzed within the method specified hold time.

A. Volatile Organics

1. Calibration

One initial calibration (IC) was performed in support of the sample analysis. All relative response factors (RRFs) and relative standard deviations (RSDs) or correlation coefficients are acceptable. A second source ICV standard was analyzed after the IC, and all percent differences are acceptable (70-

130%R). One continuing calibration was analyzed, and percent differences (%D) are acceptable, with exceptions noted below.

Analyte	%R	Associated Sample	Qualifier Applied
CCV CHEM20 9/25/2025 11:10			
Carbon Tetrachloride	35.0	IA-17 OA-4 SS-1B	J-, UJ
trans-1,3-Dichloropropene	31.9		
Dibromochloromethane	33.3		
1,1,1,2-Tetrachloroethane	33.5		
Bromoform	35.3		

In all instances, the percent difference represents a decrease in instrument sensitivity. The results for carbon tetrachloride, trans-1,3-dichloropropene, dibromochloromethane, 1,1,1,2-tetrachloroethane and bromoform in all samples are qualified as estimated (J-, UJ) due to low response in the CCV.

2. Laboratory Control Sample (LCS)

One LCS was prepared and analyzed with the sample. The LCS is evaluated using control limit of 70-130%R. All recoveries are acceptable, with the following exception:

Analyte	LCS %R	Affected Sample	Qualifier Applied
CO71323 LCS			
Ethanol	66	IA-17 OA-4 SS-1B	J-, UJ

*The summary form provided by the laboratory reports LCS recoveries based on the full scan analysis. The validator reviewed the raw data to determine the recovery in the SIM analysis and recoveries are acceptable.

The result for ethanol in all samples is qualified as estimated (J-, UJ) due to low recovery in the LCS.

3. Compound Quantitation

The result for ethanol in IA-17 is qualified as estimated (J) because the reported concentration is outside the calibration range. Results are quantitively uncertain.

4. Clean Canister Certification

Acetone is detected in two of the clean canister certification batches as presented below.

Batch Canister	Analyte	Conc. (ppbv)
Batch #3402	Acetone	0.613
Batch #3043	Acetone	0.464

The data package does not indicate which canisters are associated with which batch canister certification data. Based on professional judgement, the highest acetone value (0.613 ppbv) is used to evaluate sample results. On this basis, the results for acetone in all samples are qualified as estimated (J+) because the sample concentration is less than ten times the clean canister concentration.

No other sample results are qualified. Please feel free to contact me at (908) 370-3431 or richjerirossi513@gmail.com if you have any questions regarding this data package review report or need further information.

Sincerely,

Jeri L Rossi, CEAC

Environmental Consulting Chemist

ATTACHMENT A

Qualifier Definitions

EPA Qualifier Definitions

U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.

J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- The result is an estimated quantity, but the result may be biased low.

NJ The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.

UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.

ATTACHMENT B

CHAIN OF CUSTODY (COC)

CHAIN OF CUSTODY RECORD

AIR ANALYSES

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823
860-645-1102
email: greg@phoenixlabs.com

ACT

P.O. #

Data Delivery:
☐ Fax #:
☑ Email: raybact-earth or Jasons@act-earth
☐ Phone #:

Report to:	Joseph Squeglia	Project Name: 9628 - BXNY	Data Format: (Circle) Equis (Excel) Other:
Customer:	Advanced Cleanup Technologies, Inc.	Invoice to: Karen Friedman	Requested Deliverable: RCP ASP CAT B
Address:	228 Park Ave S PMB 34864		MCP NJ Deliverables
15001	New York, New York 10003	Sampled by: Yunmee Han	Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air (MATRIX)	Soil Gas (MATRIX)	Grab (G) Composite (C) (MATRIX)	TO-15 (ANALYSES)	APH (ANALYSES)
	THIS SECTION FOR LAB USE ONLY																
	~~23348~~	~~6.0L~~	~~-30~~		~~7013~~	~~3.15~~											
	~~489~~	~~6.0L~~	~~-30~~		10559	~~3.03~~											
07983	IA-17	226	6.0L	-30	-8	10651	3.09	1402		9/21/23	-30	-9	V			V	
07984	OA-4	28588	6.0L	-30	-8	6994	3.08	1410		9/21/23	-30	-9	V			V	
	Extra canister, do not analyze*	21357	6.0L	-30		3252	3.3										
07985	SS-18	28568	6.0L	-30	-8	3221	3.17	1358		9/21/23	-30	-10		V		V	
	~~227~~	~~6.0L~~	~~-30~~		~~10605~~	~~3.3~~											

Relinquished by:	Accepted by:	Date:	Time:
Yunmee Han	Zm	9.25.23	1033
Zm		9.25.23	1719

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Date: 9/22/23

State Where Samples Collected:

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

* Received but unused (ED)

(7) - 6.0L 24 hr

- NYSDEC Edds

Turnaround Time:
1 Day* ☐
2 Day* ☐
3 Day* ☐
4 Day* ☐
5 Day* ☐
Standard ☑
*SURCHARGES MAY APPLY

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air: Residential Ind/Commercial	Indoor Air: Residential Ind/Commercial	Vapor Intrusion	Indoor Air Residential	Indoor Air Residential Industrial
TAC RES	Soil Gas: Residential Ind/Commercial	Soil Gas: Residential Ind/Commercial	NYSDEC Edds	Non-residential	Sub-slab Residential Industrial
SVVC I/C					
SVVC RES					
GWV I/C					
GWV CES					

ATTACHMENT C

SELECTED PAGES FROM DATA PACKAGE –
QC EXCEEDANCES AND VALIDATION ISSUES

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: ACT

Lab Code: Phoenix Case No: SAS No: SDG No GCP07983

LCS - Client Id: CP07053 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		8.667	87	70	130
Dichlorodifluoromethane	10		9.126	91	70	130
Chloromethane	10		8.373	84	70	130
1,2-Dichlorotetrafluoroethane	10		9.270	93	70	130
Vinyl Chloride	10		8.611	86	70	130
1,3-Butadiene	10		8.354	84	70	130
Bromomethane	10		9.214	92	70	130
Chloroethane	10		8.429	84	70	130
Ethanol	10		13.60	136 *	70	130
Acetone	10		8.286	83	70	130
Trichlorofluoromethane	10		9.792	98	70	130
Isopropylalcohol	10		8.467	85	70	130
Acrylonitrile	10		9.065	91	70	130
1,1-Dichloroethene	10		8.773	88	70	130
Methylene Chloride	10		8.519	85	70	130
Carbon Disulfide	10		8.858	89	70	130
Trichlorotrifluoroethane	10		9.297	93	70	130
Trans-1,2-Dichloroethene	10		8.783	88	70	130
1,1-Dichloroethane	10		8.769	88	70	130
Methyl tert-butyl ether(MTBE)	10		9.246	92	70	130
Methyl Ethyl Ketone	10		9.598	96	70	130
Cis-1,2-Dichloroethene	10		8.624	86	70	130
Hexane	10		8.907	89	70	130
Chloroform	10		9.819	98	70	130
Ethyl acetate	10		6.063	61 *	70	130
Tetrahydrofuran	10		9.652	97	70	130
1,2-Dichloroethane	10		8.975	90	70	130
1,1,1-Trichloroethane	10		8.311	83	70	130
Benzene	10		9.279	93	70	130
Carbon Tetrachloride	10		7.015	70	70	130
Cyclohexane	10		9.309	93	70	130
1,2-dichloropropane	10		9.508	95	70	130
Bromodichloromethane	10		9.272	93	70	130
Trichloroethene	10		10.28	103	70	130
1,4-Dioxane	10		9.830	98	70	130
Heptane	10		9.000	90	70	130
cis-1,3-Dichloropropene	10		9.138	91	70	130
4-Methyl-2-pentanone(MIBK)	10		9.658	97	70	130
trans-1,3-Dichloropropene	10		9.191	92	70	130
1,1,2-Trichloroethane	10		10.21	102	70	130
Toluene	10		9.828	98	70	130
Dibromochloromethane	10		8.856	89	70	130
2-Hexanone(MBK)	10		9.962	100	70	130
1,2-Dibromoethane(EDB)	10		10.03	100	70	130

FORM III AIR

Method Path : H:\AIR2023\CHEM20\Methods\
Method File : 20_AIR_0921.M
Title : VOA Standards for 5 point calibration

97)		1,2-dichloropr...	0.582	0.546	0.567	0.528	0.495	0.466	0.477	0.583		0.505	0.528	8.45
98)		Bromodichlorom...	0.706	0.790	0.750	0.642	0.607	0.557	0.576	0.693		0.758	0.676	12.45
99)		Trichloroethen...	0.465	0.473	0.476	0.436	0.418	0.397	0.399	0.483		0.509	0.451	8.84
100)		1,4-Dioxane(sim)			0.249	0.186	0.192	0.177	0.165	0.217			0.198	15.37
101)		cis-1,3-Dichlo...	0.567	0.548	0.586	0.550	0.531	0.501	0.517			0.565	0.546	5.14
102)		1,1,2-Trichlor...	0.475	0.407	0.433	0.350	0.328	0.311	0.331	0.412		0.443	0.388	15.18
103)		Dibromochlorom...	0.640	0.610	0.676	0.611	0.607	0.585	0.610			0.614	0.619	4.44
104)		1,2-Dibromoeth...	0.668	0.684	0.683	0.594	0.577	0.557	0.549	0.692		0.618	0.625	9.28
105)		Tetrachloroeth...	0.689	0.651	0.664	0.613	0.579	0.538	0.545	0.682	0.619	0.762	0.634	10.98
106)	int	Chlorobenzene-d5(sim)	----------ISTD----------											
107)		Bromoform(sim)	1.122	1.046	1.158	1.044	1.014	0.927	0.983			1.251	1.068	9.71
108)		m,p-Xylene(sim)	2.334	2.175	2.395	2.057	2.016	1.787	1.835	2.336		2.451	2.154	11.35
109)		1,1,2,2-Tetrac...	1.617	1.609	1.681	1.560	1.477	1.167	1.159	1.804		1.838	1.546	15.80
112)		Benzyl chlorid...	1.754	1.790	1.910	1.664	1.659	1.181	1.101				1.580	19.78
113)		1,3-Dichlorobe...	1.958	1.805	1.930	1.728	1.660	1.178	1.101				1.623	21.38
114)	qfi	1,4-Dichlorobe...	0.049	0.075	0.118	0.202	0.523	0.830	2.894				Coef R2	0.99
115)		sec-Butylbenze...	4.392	4.184	4.509	4.146	3.945	3.384	3.404	4.331		5.122	4.158	13.04
116)		4-Isopropyltol...	4.097	4.156	4.261	3.828	3.527	2.955	2.994			4.974	3.849	17.64
117)		1,2-Dichlorobe...	1.963	1.894	1.870	1.730	1.638	1.028	0.949	1.910		2.544	1.725	28.31
118)		n-Butylbenzene...	3.890	3.961	3.659	3.274	3.125	2.416	2.453			4.623	3.425	22.26
119)	qfi	1,2,4-Trichlor...	0.053	0.062	0.110	0.205	0.516	0.878	2.616				Coef R2	1.00
120)	qfi	Hexachlorobuta...	0.054	0.066	0.126	0.211	0.537	0.749	2.878			0.038	Coef R2	0.98@

(#,$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCP07983

Instrument: CHEM20 Calibration Date: 09/25/23 Time: 11:10

Lab File Id: 0925_02.D Init. Calib. Date(s): 09/20/23 09/20/23

Heated Purge (Y/N): Y Init. Calib. Times: 14:15 20:09

GC Column: RTX-1 60M Method File: 20_AIR_0921.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	1.302	1.263		3.0	30
Dichlorodifluoromethane	2.693	2.676		0.6	30
Chloromethane	1.566	1.497		4.4	30
1,2-Dichlorotetrafluoroethane	2.636	2.708		-2.7	30
Vinyl Chloride	1.432	1.389		3.0	30
1,3-Butadiene	1.374	1.306		4.9	30
Bromomethane	0.971	1.008		-3.8	30
Chloroethane	0.628	0.588		6.4	30
Ethanol	0.424	0.417		1.7	30
Acetone	2.689	2.671		0.7	30
Trichlorofluoromethane	2.875	2.897		-0.8	30
Isopropylalcohol	3.310	3.235		2.3	30
Acrylonitrile	1.557	1.329		14.6	30
1,1-Dichloroethene	2.527	2.471		2.2	30
Methylene Chloride	2.105	2.083		1.0	30
Carbon Disulfide	2.862	2.920		-2.0	30
Trichlorotrifluoroethane	2.182	2.270		-4.0	30
Trans-1,2-Dichloroethene	2.346	2.288		2.5	30
1,1-Dichloroethane	2.631	2.594		1.4	30
Methyl tert-butyl ether(MTBE)	2.862	2.891		-1.0	30
Methyl Ethyl Ketone	3.598	3.394		5.7	30
Cis-1,2-Dichloroethene	2.382	2.191		8.0	30
Hexane	2.781	2.595		6.7	30
Chloroform	2.296	2.483		-8.1	30
Ethyl acetate	0.768	0.635		17.3	30
Tetrahydrofuran	1.958	2.015		-2.9	30
1,2-Dichloroethane	2.168	2.153		0.7	30
1,1,1-Trichloroethane	2.410	2.026		15.9	30
Benzene	3.362	3.413		-1.5	30
Carbon Tetrachloride	2.552	1.660		35.0 #	30
Cyclohexane	1.324	1.439		-8.7	30
1,2-dichloropropane	0.473	0.438		7.4	30
Bromodichloromethane	0.627	0.501		20.1	30
Trichloroethene	0.394	0.406		-3.0	30
1,4-Dioxane	0.188	0.191		-1.6	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCP07983

Instrument: CHEM20 Calibration Date: 09/25/23 Time: 11:10

Lab File Id: 0925_02.D Init. Calib. Date(s): 09/20/23 09/20/23

Heated Purge (Y/N): Y Init. Calib. Times: 14:15 20:09

GC Column: RTX-1 60M Method File: 20_AIR_0921.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.926	0.896		3.2	30
cis-1,3-Dichloropropene	0.515	0.399		22.5	30
4-Methyl-2-pentanone(MIBK)	1.143	1.121		1.9	30
trans-1,3-Dichloropropene	0.474	0.323		31.9 #	30
1,1,2-Trichloroethane	0.354	0.355		-0.3	30
Toluene	1.092	1.072		1.8	30
Dibromochloromethane	0.634	0.423		33.3 #	30
2-Hexanone(MBK)	1.067	0.980		8.2	30
1,2-Dibromoethane(EDB)	0.604	0.508		15.9	30
Tetrachloroethene	0.523	0.529		-1.1	30
1,1,1,2-Tetrachloroethane	0.832	0.553		33.5 #	30
Chlorobenzene	1.499	1.615		-7.7	30
Ethylbenzene	2.578	2.598		-0.8	30
m,p-Xylene	1.916	1.643		14.2	30
Bromoform	0.998	0.646		35.3 #	30
Styrene	1.478	1.527		-3.3	30
1,1,2,2-Tetrachloroethane	1.337	1.386		-3.7	30
o-Xylene	2.047	2.100		-2.6	30
Isopropylbenzene	2.837	2.997		-5.6	30
4-Ethyltoluene	2.749	2.845		-3.5	30
1,3,5-Trimethylbenzene	2.241	2.450		-9.3	30
1,2,4-Trimethylbenzene	2.275	2.342		-2.9	30
Benzyl chloride	1.714	1.396		18.6	30
1,3-Dichlorobenzene	1.410	1.566		-11.1	30
1,4-Dichlorobenzene	1.373	1.480		-7.8	30
sec-Butylbenzene	3.547	3.660		-3.2	30
4-Isopropyltoluene	3.336	3.581		-7.3	30
1,2-Dichlorobenzene	1.336	1.424		-6.6	30
n-Butylbenzene	2.860	2.975		-4.0	30
1,2,4-Trichlorobenzene	1.133	1.109		2.1	30
Hexachlorobutadiene	1.235	1.180		4.5	30
1,2-Dichlorotetrafluoroethane(sim)	2.468	2.569		-4.1	30
Vinyl Chloride(sim)	1.425	1.433		-0.6	30
Bromomethane(sim)	0.919	0.957		-4.1	30
Trichlorofluoromethane(sim)	2.749	2.848		-3.6	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCP07983

Instrument: CHEM20 Calibration Date: 09/25/23 Time: 11:10

Lab File Id: 0925_02.D Init. Calib. Date(s): 09/20/23 09/20/23

Heated Purge (Y/N): Y Init. Calib. Times: 14:15 20:09

GC Column: RTX-1 60M Method File: 20_AIR_0921.M

COMPOUND		RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)		1.962	2.043		-4.1	30
1,1,1-Trichloroethane(sim)		2.420	2.042		15.6	30
Benzene(sim)		3.378	3.239		4.1	30
Carbon Tetrachloride(sim)		2.350	1.649		29.8	30
1,1-Dichloroethene(sim)		2.401	2.344		2.4	30
Trichlorotrifluoroethane(sim)		2.190	2.287		-4.4	30
Trans-1,2-Dichloroethene(sim)		2.215	2.170		2.0	30
1,1-Dichloroethane(sim)		2.691	2.696		-0.2	30
Cis-1,2-Dichloroethene(sim)		2.217	2.079		6.2	30
Chloroform(sim)		2.288	2.476		-8.2	30
1,2-dichloropropane(sim)		0.528	0.473		10.4	30
Bromodichloromethane(sim)		0.676	0.501		25.9	30
Trichloroethene(sim)		0.451	0.439		2.7	30
1,4-Dioxane(sim)		0.198	0.191		3.5	30
cis-1,3-Dichloropropene(sim)		0.546	0.442		19.0	30
1,1,2-Trichloroethane(sim)		0.388	0.355		8.5	30
Dibromochloromethane(sim)		0.619	0.452		27.0	30
1,2-Dibromoethane(EDB)(sim)		0.625	0.508		18.7	30
Tetrachloroethene(sim)		0.634	0.609		3.9	30
Bromoform(sim)		1.068	0.755		29.3	30
m,p-Xylene(sim)		2.154	2.088		3.1	30
1,1,2,2-Tetrachloroethane(sim)		1.546	1.465		5.2	30
Benzyl chloride(sim)		1.580	1.500		5.1	30
1,3-Dichlorobenzene(sim)		1.623	1.771		-9.1	30
1,4-Dichlorobenzene(sim)	qfi	1.000	1.18		-18.0	20
sec-Butylbenzene(sim)		4.158	3.914		5.9	30
4-Isopropyltoluene(sim)		3.849	3.586		6.8	30
1,2-Dichlorobenzene(sim)		1.725	1.536		11.0	30
n-Butylbenzene(sim)		3.425	2.988		12.8	30
1,2,4-Trichlorobenzene(sim)	qfi	1.000	0.82		18.0	20
Hexachlorobutadiene(sim)	qfi	1.000	0.75		25.0 #	20
% Bromofluorobenzene		1.327	1.383		-4.2	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCP07983

Instrument: CHEM20 Calibration Date: 09/25/23 Time: 11:10

Lab File Id: 0925_02.D Init. Calib. Date(s): 09/20/23 09/20/23

Heated Purge (Y/N): Y Init. Calib. Times: 14:15 20:09

GC Column: RTX-1 60M Method File: 20_AIR_0921.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	1.302	1.263		3.0	30
Dichlorodifluoromethane	2.693	2.676		0.6	30
Chloromethane	1.566	1.497		4.4	30
1,2-Dichlorotetrafluoroethane	2.636	2.708		-2.7	30
Vinyl Chloride	1.432	1.389		3.0	30
1,3-Butadiene	1.374	1.306		4.9	30
Bromomethane	0.971	1.008		-3.8	30
Chloroethane	0.628	0.588		6.4	30
Ethanol	0.424	0.417		1.7	30
Acetone	2.689	2.671		0.7	30
Trichlorofluoromethane	2.875	2.897		-0.8	30
Isopropylalcohol	3.310	3.235		2.3	30
Acrylonitrile	1.557	1.329		14.6	30
1,1-Dichloroethene	2.527	2.471		2.2	30
Methylene Chloride	2.105	2.083		1.0	30
Carbon Disulfide	2.862	2.920		-2.0	30
Trichlorotrifluoroethane	2.182	2.270		-4.0	30
Trans-1,2-Dichloroethene	2.346	2.288		2.5	30
1,1-Dichloroethane	2.631	2.594		1.4	30
Methyl tert-butyl ether(MTBE)	2.862	2.891		-1.0	30
Methyl Ethyl Ketone	3.598	3.394		5.7	30
Cis-1,2-Dichloroethene	2.382	2.191		8.0	30
Hexane	2.781	2.595		6.7	30
Chloroform	2.296	2.483		-8.1	30
Ethyl acetate	0.768	0.635		17.3	30
Tetrahydrofuran	1.958	2.015		-2.9	30
1,2-Dichloroethane	2.168	2.153		0.7	30
1,1,1-Trichloroethane	2.410	2.026		15.9	30
Benzene	3.362	3.413		-1.5	30
Carbon Tetrachloride	2.552	1.660		35.0 #	30
Cyclohexane	1.324	1.439		-8.7	30
1,2-dichloropropane	0.473	0.438		7.4	30
Bromodichloromethane	0.627	0.501		20.1	30
Trichloroethene	0.394	0.406		-3.0	30
1,4-Dioxane	0.188	0.191		-1.6	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCP07983

Instrument: CHEM20 Calibration Date: 09/25/23 Time: 11:10

Lab File Id: 0925_02.D Init. Calib. Date(s): 09/20/23 09/20/23

Heated Purge (Y/N): Y Init. Calib. Times: 14:15 20:09

GC Column: RTX-1 60M Method File: 20_AIR_0921.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.926	0.896		3.2	30
cis-1,3-Dichloropropene	0.515	0.399		22.5	30
4-Methyl-2-pentanone(MIBK)	1.143	1.121		1.9	30
trans-1,3-Dichloropropene	0.474	0.323		31.9 #	30
1,1,2-Trichloroethane	0.354	0.355		-0.3	30
Toluene	1.092	1.072		1.8	30
Dibromochloromethane	0.634	0.423		33.3 #	30
2-Hexanone(MBK)	1.067	0.980		8.2	30
1,2-Dibromoethane(EDB)	0.604	0.508		15.9	30
Tetrachloroethene	0.523	0.529		-1.1	30
1,1,1,2-Tetrachloroethane	0.832	0.553		33.5 #	30
Chlorobenzene	1.499	1.615		-7.7	30
Ethylbenzene	2.578	2.598		-0.8	30
m,p-Xylene	1.916	1.643		14.2	30
Bromoform	0.998	0.646		35.3 #	30
Styrene	1.478	1.527		-3.3	30
1,1,2,2-Tetrachloroethane	1.337	1.386		-3.7	30
o-Xylene	2.047	2.100		-2.6	30
Isopropylbenzene	2.837	2.997		-5.6	30
4-Ethyltoluene	2.749	2.845		-3.5	30
1,3,5-Trimethylbenzene	2.241	2.450		-9.3	30
1,2,4-Trimethylbenzene	2.275	2.342		-2.9	30
Benzyl chloride	1.714	1.396		18.6	30
1,3-Dichlorobenzene	1.410	1.566		-11.1	30
1,4-Dichlorobenzene	1.373	1.480		-7.8	30
sec-Butylbenzene	3.547	3.660		-3.2	30
4-Isopropyltoluene	3.336	3.581		-7.3	30
1,2-Dichlorobenzene	1.336	1.424		-6.6	30
n-Butylbenzene	2.860	2.975		-4.0	30
1,2,4-Trichlorobenzene	1.133	1.109		2.1	30
Hexachlorobutadiene	1.235	1.180		4.5	30
1,2-Dichlorotetrafluoroethane(sim)	2.468	2.569		-4.1	30
Vinyl Chloride(sim)	1.425	1.433		-0.6	30
Bromomethane(sim)	0.919	0.957		-4.1	30
Trichlorofluoromethane(sim)	2.749	2.848		-3.6	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client:

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCP07983

Instrument: CHEM20 Calibration Date: 09/25/23 Time: 11:10

Lab File Id: 0925_02.D Init. Calib. Date(s): 09/20/23 09/20/23

Heated Purge (Y/N): Y Init. Calib. Times: 14:15 20:09

GC Column: RTX-1 60M Method File: 20_AIR_0921.M

COMPOUND		RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)		1.962	2.043		-4.1	30
1,1,1-Trichloroethane(sim)		2.420	2.042		15.6	30
Benzene(sim)		3.378	3.239		4.1	30
Carbon Tetrachloride(sim)		2.350	1.649		29.8	30
1,1-Dichloroethene(sim)		2.401	2.344		2.4	30
Trichlorotrifluoroethane(sim)		2.190	2.287		-4.4	30
Trans-1,2-Dichloroethene(sim)		2.215	2.170		2.0	30
1,1-Dichloroethane(sim)		2.691	2.696		-0.2	30
Cis-1,2-Dichloroethene(sim)		2.217	2.079		6.2	30
Chloroform(sim)		2.288	2.476		-8.2	30
1,2-dichloropropane(sim)		0.528	0.473		10.4	30
Bromodichloromethane(sim)		0.676	0.501		25.9	30
Trichloroethene(sim)		0.451	0.439		2.7	30
1,4-Dioxane(sim)		0.198	0.191		3.5	30
cis-1,3-Dichloropropene(sim)		0.546	0.442		19.0	30
1,1,2-Trichloroethane(sim)		0.388	0.355		8.5	30
Dibromochloromethane(sim)		0.619	0.452		27.0	30
1,2-Dibromoethane(EDB)(sim)		0.625	0.508		18.7	30
Tetrachloroethene(sim)		0.634	0.609		3.9	30
Bromoform(sim)		1.068	0.755		29.3	30
m,p-Xylene(sim)		2.154	2.088		3.1	30
1,1,2,2-Tetrachloroethane(sim)		1.546	1.465		5.2	30
Benzyl chloride(sim)		1.580	1.500		5.1	30
1,3-Dichlorobenzene(sim)		1.623	1.771		-9.1	30
1,4-Dichlorobenzene(sim)	qfi	1.000	1.18		-18.0	20
sec-Butylbenzene(sim)		4.158	3.914		5.9	30
4-Isopropyltoluene(sim)		3.849	3.586		6.8	30
1,2-Dichlorobenzene(sim)		1.725	1.536		11.0	30
n-Butylbenzene(sim)		3.425	2.988		12.8	30
1,2,4-Trichlorobenzene(sim)	qfi	1.000	0.82		18.0	20
Hexachlorobutadiene(sim)	qfi	1.000	0.75		25.0 #	20
% Bromofluorobenzene		1.327	1.383		-4.2	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

ATTACHMENT D

ANNOTATED SUMMARY FORMS

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-17

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCP07983 Lab Sample ID: CP07983

Canister: 226 Lab File ID: 0925_24.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 09/25/23

Purge Volume 200 (cc) Date Analyzed: 09/25/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.524		0.202	0.202	r
74-87-3	Chloromethane	0.526		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	43.1	J	0.531	0.531	r
67-64-1	Acetone	5.65	J+	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.239		0.178	0.178	r
67-63-0	Isopropylalcohol	1.25	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.623		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	UJ	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene	0.443		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-17

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCP07983 Lab Sample ID: CP07983

Canister: 226 Lab File ID: 0925_24.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 09/25/23

Purge Volume 200 (cc) Date Analyzed: 09/25/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.051	J-	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	UJ	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	UJ	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.145		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	UJ	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/8/2025

AIR ANALYSIS DATA SHEET

CLIENT ID: OA-4

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCP07983 Lab Sample ID: CP07984

Canister: 28588 Lab File ID: 0925_25.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 09/25/23

Purge Volume 200 (cc) Date Analyzed: 09/25/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.503		0.202	0.202	r
74-87-3	Chloromethane	0.526		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	20.9	J-	0.531	0.531	r
67-64-1	Acetone	5.68	J+	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.207		0.178	0.178	r
67-63-0	Isopropylalcohol	0.841	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.477	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.329		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.833		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene	0.494		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

CLIENT ID

AIR ANALYSIS DATA SHEET

OA-4

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCP07983 Lab Sample ID: CP07984

Canister: 28588 Lab File ID: 0925_25.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 09/25/23

Purge Volume 200 (cc) Date Analyzed: 09/25/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.051	J-	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	UJ	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	UJ	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.068		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	UJ	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	UJ	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/8/2025

1

CLIENT ID

AIR ANALYSIS DATA SHEET

SS-18

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCP07983 Lab Sample ID: CP07985

Canister: 28568 Lab File ID: 0925_28.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 09/25/23

Purge Volume 200 (cc) Date Analyzed: 09/26/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.437		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	31.8	J-	0.531	0.531	r
67-64-1	Acetone	3.62	J+	0.421	0.421	r
67-63-0	Isopropylalcohol	0.759	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.506		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
106-46-7	1,4-Dichlorobenzene	0.231		0.166	0.166	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.197		0.178	0.178	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-18

Client: ACT Lab: Phoenix Env. Labs

SDG No.: GCP07983 Lab Sample ID: CP07985

Canister: 28568 Lab File ID: 0925_28.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 09/25/23

Purge Volume: 200 (cc) Date Analyzed: 09/26/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.040	J-	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	UJ	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.101		0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.177		0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	UJ	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.171		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	UJ	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.371		0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	UJ	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

JR 12/8/2025